(Other instructions on reverse side)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVICION OF OIL AND MINING CAC

_	5.	LEASE	DESIGNATION	AND	SERIAL	NO
					~	

Foo	Land	

DIVISION OF OIL, CAS,	ANDITINING	Fee Land
APPLICATION FOR PERMIT TO DRILL,	DEEPEN, OR PLUG BAC	
1a. Type of work		
b. TYPE OF WELL CONFIDENTIAL CO	PLUG BACK	7. UNIT AGREEMENT NAME
TELLIZE CONTRACTOR CON	S NGLE XXXX MULTIPLE ZONE	8. FARM OR LEASE NAME
2. NAME OF OPERATOR		Mark
PENNZOIL Exploration & Product:	ion Company	9. WELL NO.
3. ADDRESS OF OPERATOR		2-25A2
P.O. Box 290 Neola, Utah 8	4053	0. EXELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report location clearly and in accordance wi		Bluebell Wasatch
670'FNL & 1798' FEL	MAY 18 1989	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone		NWNE
SAME	United OF	Sec. 25, T1S, R2W.
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POS	T OFFICE. OIL, GAS & MINING	12. COUNTY OR PARISH 13. STATE
About 6.5 miles Northwest of B		Duchsene UT
15. DISTANCE FROM PROPOSED* 182	16. NO. OF ACRES IN LEASE 17.	NO. OF ACRES ASSIGNED TO THIS WELL

1 PROPERTY OR LEASE LINE, FT.
(Also to nearest drig, unit line, if any) 670' 640 18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 20. ROTARY OR CABLE TOOLS 2271' 13,700 Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START*

5.486' GL (UNGRADED)

5-22-89

 $\overline{23}$. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 9 5/8" 12 1/4" 3.500' 2950 ft3 7" 8 3/4" 23 26 29 32 13 7001 2500 ft3

Enclosed attachments: a. Certified Location Plat. 1.

b. Drilling Plan.

c. BOP Schematic.

d. Map showing roadway to wellsite.

e. Schematic showing...rig layout on wellsite. ...wellsite cross-sections.

- Temporary Water Permit No. 789-43-8 (Water Right # 43- 3598) Anderson Back up water Permit No. 7 89-43 6. 43-3626 Myron Huslam
- 3. And AFE has been prepared and sent to partners for approval.

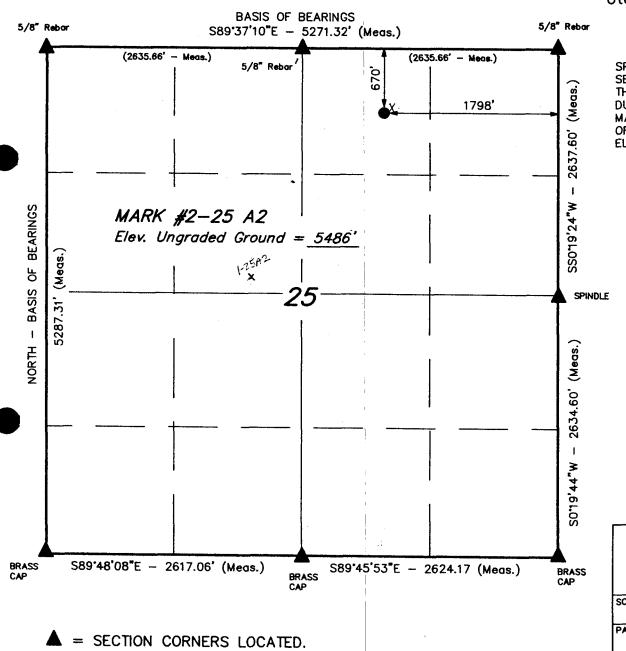
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if an Home (801) 781-0620 Office Drilling Superintendent 5-15-89 Wilburn L (This space for Federal or State office use) APPROVED BY THE STATE OF UTAH DIVISION OF PERMIT NO. APPROVAL DATE GAS, AND MINING UT - 149Math BY -CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

PENNZOIL EXPLORATION & PRODUCTION CO.

Well location MARK #2-25 A2, located as shown in the NW 1/4 NE 1/4, Section 25, T1S, R2W, U.S.B.&M. Duchesne County, Utah.

T1S, R2W, U.S.B.&M.



BASIS OF ELEVATION

SPOT ELEVATION TAKEN AT THE NORTHEAST CORNER SECTION 26, T1S, R2W, U.S.B.&M. TAKEN FROM THE HANCOCK COVE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5515 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE THAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS TADE OF THE OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND STUES

EGISTERED LAND SURVEYOR

UINTAH ENGINEERING SURVEYING
P. O. BOX 1758 - 85 SOUTH - 200 EAST

VERNAL, UTAH - 84078

	01010
SCALE 1" = 1000'	DATE 4-27-89
PARTY L.D.T. D.B J.T.K.	REFERENCES G.L.O. PLAT
WEATHER	FILE
WARM	PENNZOIL COMPANY

PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

May 16, 1989

State of Utah, Dept of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

Re: APD for:

Mark No. 2-25A2

670' FNL & 1798' FEL

NWNE Section 25, T1S, R2W

Duchesne County, Utah

MAY 18 1989

OIL, GAS & MINING

Gentlemen:

The original and two copies of captioned APD with attachments are enclosed for your review and I trust your approval. Pennzoil Company requests that this APD and all related information submitted on this well be held confidential for that period of time as permitted by regulations and law.

Should there be any question, please contact the undersigned.

Sincerely,

Pennzoil Exploration & Production Company

Wilburn L. Luna

Drilling Superintendent

ilburn J. Tuno

Enclosure

UT-9

OPERATOR:....PENNZOIL COMPANY WELL:.....Mark No. 2-25A2 WELL LOCATION: .670' FNL, 1798' FEL

NWNE Section 25, T1S, R2W Duchesne County, Utah

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL FORMATIONS:

Duchesne River at surface (surface formation) Green River 6,070' 7,399' Trona 8,159' MB 9,378' TGR3 (H) 10,244' K (CP70) CP 200 12,441' CP 210 12,754' TFL(Three Fingered Lime) @ 13,191'

Total Depth 13,700'

2. ESTIMATED OIL & WATER DEPTHS:

> Water:.....None anticipated Top Green River production...oil @ 6,500' Top Wasatch production.....oil @ 11,511'

- 3. PROPOSED CASING PROGRAM:
 - 16" conductor to be set and cemented at a proposed depth of 60'.
 - 9 5/8", 40.0#, S-80, LT&C to be set and cemented at a В. proposed depth of 3,500'.

Cement: Low density filler cement to surface. with 250 sks Cl "G" or "H" tailored for depth and Temp.

7", 23/26/29#, S-95/N-80, LT&C/BUTT to be set and C. cemented at a proposed depth of 11,300' in the transition zone.

Cement: Low density filler cement to surface. Tail in with Cl "G" or "H" tailored to depth and temperature.

If needed: 5, 18#, N-80, FL4S, integral joint liner, D. will be set and cemented. This liner is not planned nor anticipated.

Cement: Cl "G" or "H" tailored to depth & temperature.

4, OPERATOR'S PRESSURE CONTROL PLAN;

Figure No. 1 is a schematic of minimum BOP equipment.

The BOP equipment will be nippled up on the surface casing and pressure tested prior to drilling out:

- A. All rams and choke manifold will be tested to 5000 Psi.
- B. Bag preventer will be tested to 50% of its rated working pressure.

Record all BOP tests on tour reports.

Retest BOP stack every 28 days.

Before drilling out test casing strings to 0.22 psi per foot of depth or 1,500 Psi whichever is the greatest.

Fill-up line above the Bag Type Preventer.

Kill line located below the BOP rams.

Operational Checks:

Pipe rams will be closed and opened once each 24 hours.

Blind rams will be closed and opened each time the drill string is pulled from the wellbore.

Auxiliary well control and monitoring equipment:

- A. Upper and lower kelly cocks will be utilized.
- B. A full-opening drill pipe stabbing valve with proper drill pipe fittings will be utilized when the kelly is not in the string.
- C. PVT equipment will be used to monitor the mud system from the top of the Green River to Total Depth.

5. PROPOSED DRILLING FLUID PROGRAM:

A. 16" conductor & surface hole: Drill this interval of the well bore with clear fresh water. Drill solids will be flocculated with lime to keep the water clean. Lime & bentonite will be used as needed.

Should a water flow be encountered, it will be killed contained with a fresh water mud and drilling will continue.

B. Productive Interval: Drill out with fresh water containing 3% KCL. Use viscous sweeps to keep the well bore clean and a flocculent to keep the make up water clean.

When well bore conditions dictate (tight hole, bridging & etc.) mud up will be with a low solids, non-dispersed drilling fluid.

Should well conditions dictate the mud will be dispersed.

Final fluid properties: 13.5/14.0#, 40/45 Vis, 10/15 WL and a YP of 10/20.

6. WELL BORE EVALUATION:

- a. DRILL STEM TESTING:.....None planned.
- B. CORING:.....None planned.
- C. LOGGING: Surface Hole:.....None.

Intermediate Hole:.....DLL-GR FDC-CNL

BHC-SONIC

Productive interval:....DIL-GR

FDC-CNL

BHC-SONIC

D. COMPLETION: The objective formation is the Wasatch. Selected zones will be perforated and evaluated for stimulation work. Probably treatment, 100gals. 7 1/2% and/or 15% HCL per foot of perfs.

DRILLING PLAN

7. PRESSURES & TEMPERATURES:

A. PRESSURE:

At Total Depth the mud weight will probably be 13.5# and the formation pressure 9,300 Psi+.

B. TEMPERATURE:

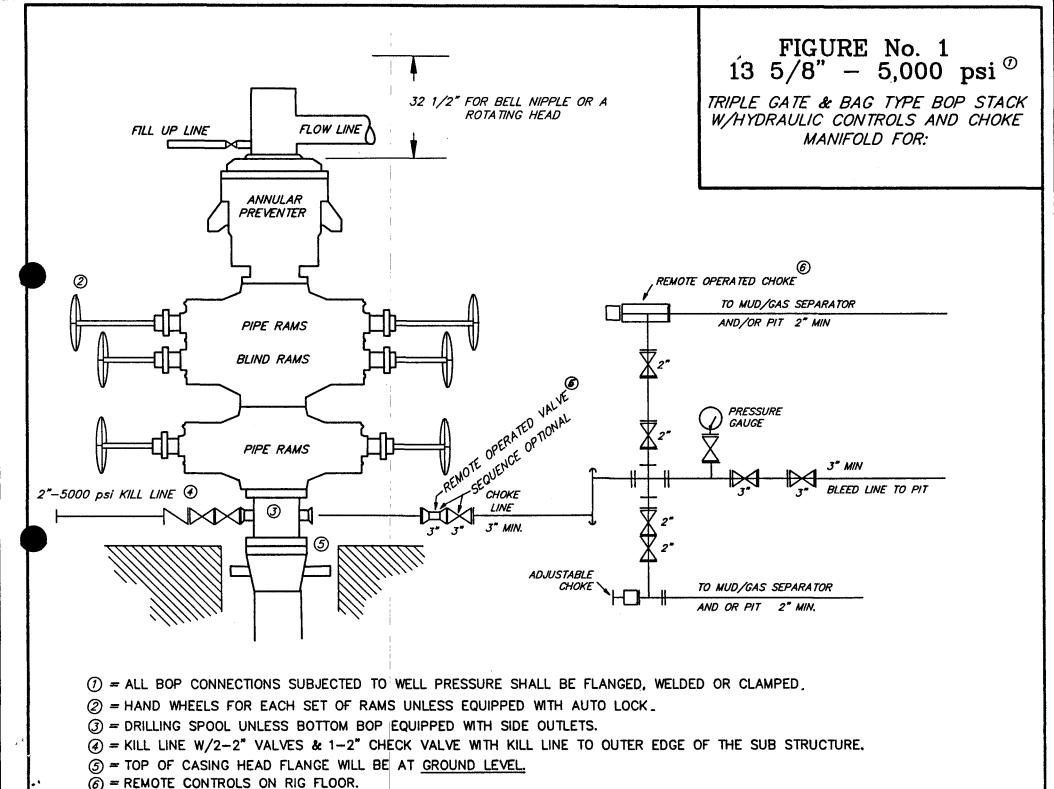
Temperatures are normal for this area and well depth, probably 235 degrees at 13,700'.

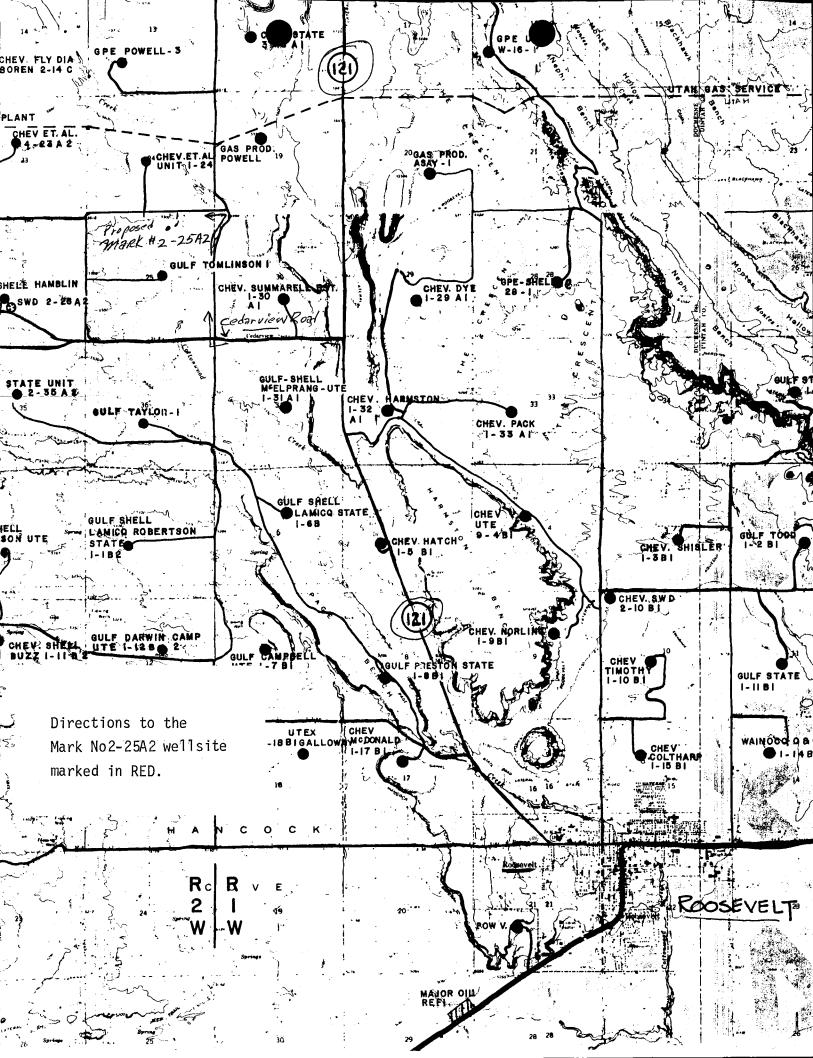
8. ANTICIPATED STARTING DATE:

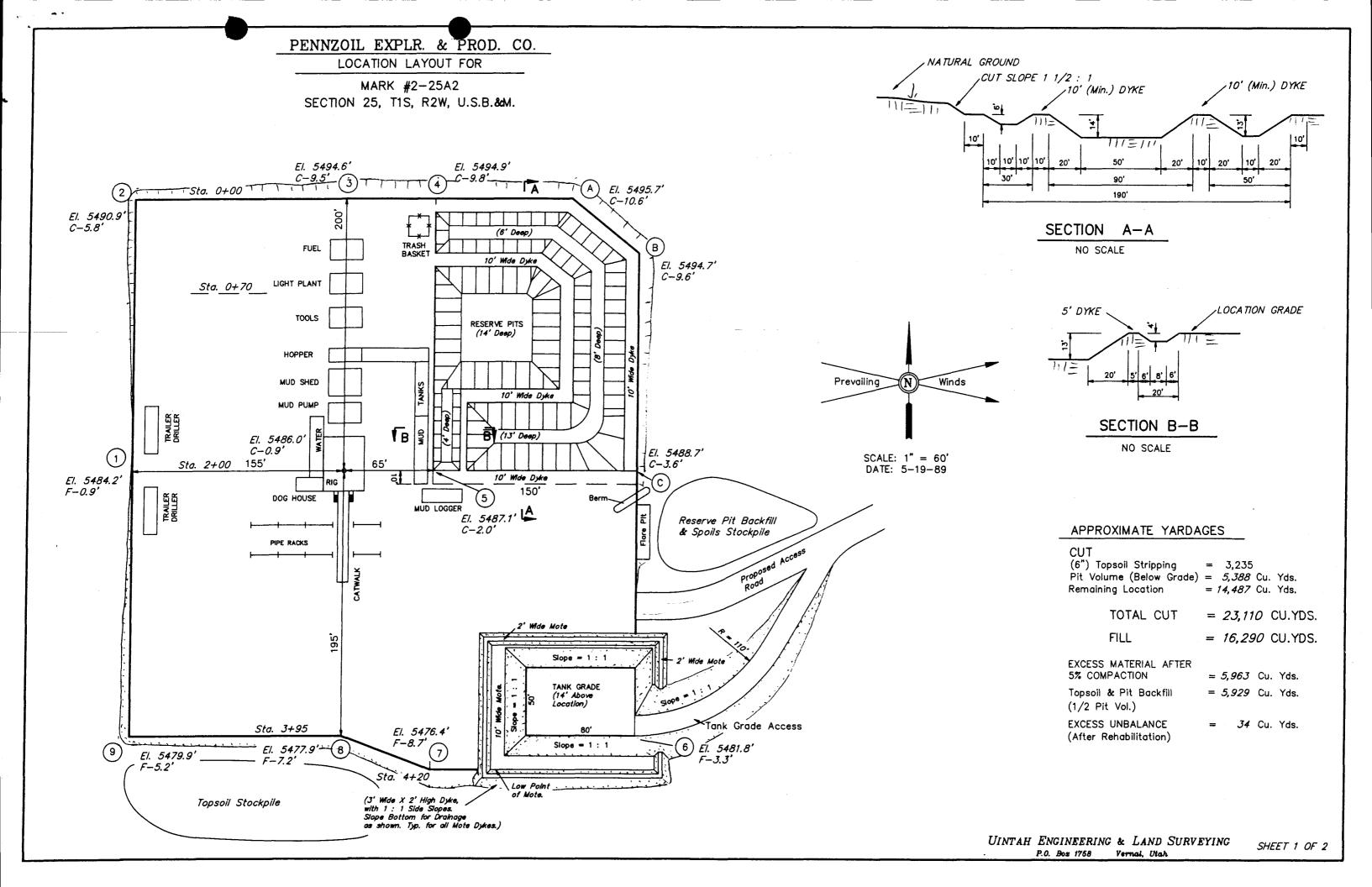
Construction of road and location will probably start with-in three (3) days of approval.

9. This well will be drilled per regulations as set forth by the:

State of Utah Natural Resource Oil, Gas & Mining Division



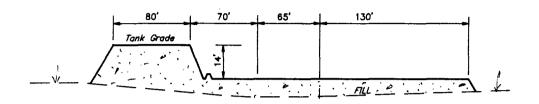




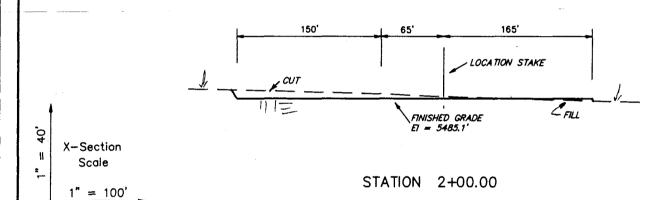
PENNZOIL EXPLR. & PROD. CO.

LOCATION LAYOUT FOR

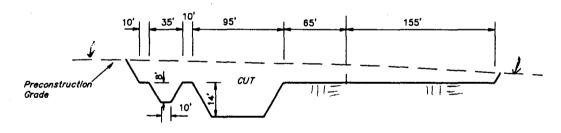
MARK #2-25A2 SECTION 25, T1S, R2W, U.S.B.&M.



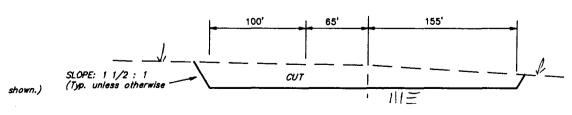
STATION 3+95.00



DATE: 5-15-89



STATION 0+70.00



STATION 0+00

APPLICATION FOR TEMPORARY CHANGE WENOF WATER CEIVED Fee Paid \$ Receipt # _ STATE OF UT Microfilmed ____ **DIVISION OF** For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended. Roll # _ *WATER RIGHT NO. 43 - 3598 *APPLICATION NO. t 89 - 43 - 8 Changes are proposed in (check those applicable) X point of diversion. X place of use. X nature of use. X period of use. 1. OWNER INFORMATION Name: Tom J. Anderton / PENNZOLE Route 1, Box 1572 Address: City: _____Roosevelt State: Utah Zip Code: 84066 *PRIORITY OF CHANGE: May 16, 1989 *FILING DATE: May 16, 1989 *Is this change amendatory? (Yes/No): _____ 3. RIGHT EVIDENCED BY: Application A32113 (43-3598) Prior Approved Temporary Change Applications for this right: QUANTITY OF WATER: _____ cfs and/or _____ ac-ft. SOURCE: Underground Water Well COUNTY: Duchesne POINT(S) OF DIVERSION: (1) N 1400 ft. E 1188 from W4 Cor. Sec. 7, T2S, R1W, USB&M. (2) N 1400 ft. E 2038 ft. from W4 Cor. Sec. 7, T2S, R1W, USB&M. (3) N 1400 ft. W 1812 ft. from E4 Cor. Sec. 12, T2S, R1W, USB&M. Description of Diverting Works: ___ POINT(S) OF REDIVERSION The water has been rediverted from ______ at a point: _____ Description of Diverting Works: 9. POINT(S) OF RETURN The amount of water consumed is _____ cfs or ____ ac-ft. The amount of water returned is _____ cfs or ____ ac-ft. The water has been returned to the natural stream/source at a point(s): *These items are to be completed by the Division of Water Rights.

10.	. NATURE AND PEI							
	Irrigation:	From <u>04,-</u>	1to_10/31	_				
	Stockwatering:	From	to	_				
	Domestic:		to		•			
	Municipal:	From	to					
	Mining:		to					
	Power:		to		·			
	Other:		to					
11.	PURPOSE AND EX							
	Irrigation: 16.	<u>40</u> acres. Sc	ole supply of	acres.				
					·			
	Domestic:F	amilies and/or $_$	Persons.					
	Mining:	**************************************	N	lining District in the		Mine.		
	Ores mined: _							
	Power: Plant name	:		Type:	Capacity:			
	Other (describe): _	- 	· · · · · · · · · · · · · · · · · · ·					
10	DI ACE OF LICE							
12.			40 ++(-)	N1/2 of Section	१७ ४ ४ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १ १	SR&M		
				N1/2 of Section				
				· · · · · · · · · · · · · · · · · · ·				
								
13.	STORAGE							
	Reservoir Name: _		· · · · · · · · · · · · · · · · · · ·	Storage Period: from _	to			
	Capacity:ac-ft. Inundated Area:acres.							
	Height of dam:feet.							
	.,		by 40 tract(s):	·				
			- , ,					
	a ble up a de la las de							
* * *	*****	***** THE FO	OLLOWING CHAN	IGES ARE PROPOSED **	* * * * * * * * * * * * * * * * * * *	****		
	CALLA NUTURN CAP TALA?	rrn	ofo and lon	20 4				
	-			20 ac-ft.				
	SOURCE: Undergi				V			
143	Balance of the water	er will be abandor	1ea:	, or will be used as h	ieretolore:^			
th.	COUNTY: Duchesne POINT(S) OF DIVERSION: North 1400 ft. East 1188 ft. from W4 Cor. Sec. 7, T2S, R1W, USB&M							
17.								
	"COMMON DESCRI	PTION:						
18	POINT(S) OF REDIV	/FRSION						
					at a point.			
	THE WATER WITE DE R	surverted from	······································	· · · · · · · · · · · · · · · · · · ·	at a pontt:			
				· · · · · · · · · · · · · · · · · · ·				
	Doggrintion of Divo							
	Peserthion of Dive	iting vvoiks:						
19	POINT(S) OF RETUR	₹N		· · · · · ·				
	The amount of water		is ofer					
	The amount of wate							
				e at a point(s):				
	THE MAILET MITTING TO							
•		, , , , , , , , , , , , , , , , , , ,		····	- , - , - , - , - , - , - , - , - , - ,			
-								

20.	NATURE AND PERI	OD OF USE
	Irrigation:	From/to/
	Stockwatering:	From/to/
	Domestic:	From/to/
	Municipal:	From/to/
	Mining:	From/to/
	Power:	From/to/
	Other:	From <u>05 / 16 / 89</u> to <u>05 / 15 / 90</u>
21.	PURPOSE AND EXT	ENT OF USE
	Irrigation:	acres. Sole supply of acres.
		nber and kind):
		Families and/or Persons.
	Mining.	Mining District at theMine
	Orga minade	
	D Diant name	Tupe Canacity
	Power: Plant name:	Oil Well Drilling and Completion.
	Other (describe): _	
		5A2 Sec 25 R2W TISO. Duchesre County Utah
23.	STORAGE	
	Reservoir Name: _	Storage Period: fromto
		ac-ft. Inundated Area:acres.
	Height of dam:	
		I inundated area by 40 tract(s):
	•	
24.	EXPLANATORY	
	The following is se water rights used for	forth to define more clearly the full purpose of this application. Include any supplementa or the same purpose. (Use additional pages of same size if necessary):
	******	· ************************************
٠	The undersigned ne of the above-numb responsibility for applicant(s).	ereby acknowledges that even though he/she/they may have been assisted in the preparation ered application through the courtesy of the employees of the Division of Water Rights, a the accuracy of the information contained herein, at the time of filing, rests with the standard contained herein.
		Jon Sondellon

Signature of Applicant(s)

APPLICATION FOR TEMPORARY CHANGE

OF WATER

STATE OF UTAH

Rec. by _	
Fee Paid \$ _	
Receipt #_	
Microfilmed _	
Doll #	

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

TEMPORARY CHANGE APPLICATION NO. t89-43-7

Proposed changes: point of diversion [X], place of use [X], nature of use [X].

Dry Gulch Irrigation Company 1. NAME:

c/o Pennzoil Company

ADDRESS: P.O. Box 209 Neola, UT 87053

2. FILING DATE: May 16, 1989

3. RIGHT EVIDENCED BY: Application A623

HERETOFORE referenced from Water Right: 43-3037

170.17 cfs 4. FLOW:

5. SOURCE: Uintah River

6. COUNTY: Uintah

7. POINT(S) OF DIVERSION:

(1) N 236 ft. E 198 ft. from SW corner, Section 4, T1N, R1W, USBM (2) S 187 ft. E 794 ft. from NW corner, Section 25, T1N, R1W, USBM

Diverting Works: Two wooden headgates

8. NATURE OF USE:

IRRIGATION: Total: 12373.12 acres

PERIOD OF USE: April 1 to October 31

9. PLACE OF USE:

1 1102 01 0021				
	NORTH-EAST	NORTH-WEST	SOUTH-WEST社	SOUTH-EAST 4
	NE NW SW SE			
Sec 19, T1N, R1W, USBM	: : :		: : X:	X: : :
Sec 30, TIN, RIW, USBM		\ : : : \ `	: X: X:	1 : : :
Sec 31, T1N, R1W, USBM		: X: X:		
Sec 32, T1N, R1W, USBM	: : X:	: : :	: : :	
Sec 33, T1N, R1W, USBM	: X: X:		X: : : X	: : :
Sec 19, T1S, R1E, USBM			X: X: X: X	
Sec 30, T1S, R1E, USBM		X: X: X: X		: : :
Sec 5, T1S, R1W, USBM	: : X:	: X: X:	: X: X:	: X: :
Sec 7, T1S, R1W, USBM	: X: X:	: X: :		: : :
Sec 8, T1S, R1W, USBM		X: X: : X		
Sec 11, TIS, RIW, USBM	X: X: X: X		: :	: : :

Continued on Next Page

t89-43-7

Page 3

12. COUNTY: Duchesne

COMMON DESCRIPTION:

13. POINT(S) OF DIVERSION: Changed as follows:

(1) N 2400 ft. E 1100 ft. from SW corner, Section 12, T1S, R2W, USBM Diverting Works: Pump into pipeline Source: Unnamed Pond

14. PLACE OF USE: Changed as follows:

NORTH-EAST | NORTH-WEST | SOUTH-WEST | SOUTH-EAST | NE NW SW SE | NE NW

Sec 12, T1S, R2W, USBM

15. NATURE OF USE: Changed as follows:

OIL EXPLORATION: Oil Well Drilling and Completion on Well Duncan #4-12A2.

PERIOD OF USE: May 16, 1989 to May 15, 1990.

The undersigned hereby acknowledges that even though he/she may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Engineer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

Signature of Applicant

DRILLING LOCATION ASSESSMENT

State of Utah Division of Oil, Gas and Mining

OPERATOR: PENNZOIL WELL NAME: MARK 2-25A2

SECTION: 25 TWP: 1S RNG: 2W LOC: 670 FNL 1798 FEL

OTR/OTR NW/NE COUNTY: DUCHESNE FIELD: BLUEBELL

SURFACE OWNER: LONZO AND HAROLD MARK

SPACING: 660 F SECTION LINE 1320 F ANOTHER WELL

INSPECTOR: BRAD HILL DATE AND TIME: 5/19/89 10 AM

PARTICIPANTS: WIL LUNA-PENNZOIL, TRACY MONK-CONTRACTOR

REGIONAL SETTING/TOPOGRAPHY: North central Uinta Basin. Location is in an overgrazed pasture which is sloping gently to the SW. The location is not dissected by any streams or drainages.

LAND USE:

CURRENT SURFACE USE: Domestic grazing.

PROPOSED SURFACE DISTURBANCE: A rectangular pad will be constructed approximately 370'X 400', including the reserve pit. Approximately 100 yards of access road will be constructed.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None.

FLORA/FAUNA: Overgrazed pasture containing sparse grass, Russian Olive, Asparagus, and scattered Alfalfa/Insects, Horses

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Dry silty sand

SURFACE FORMATION & CHARACTERISTICS: Quaternary eolian silty sand which overlies the Duchesne River Formation

EROSION/SEDIMENTATION/STABILITY: No active erosion or sedimentation. There are no drainages on the pad site and the site should remain quite stable.

PALEONTOLOGICAL POTENTIAL: None evident

SUBSURFACE GEOLOGY

OBJECTIVES/DEPTHS: Green River-6500', Wasatch-11511'

ABNORMAL PRESSURES-HIGH AND LOW: None anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: NA

CONSTRUCTION MATERIALS: Gravel to be hauled in for access road construction.

SITE RECLAMATION: As per landowner.

RESERVE PIT

CHARACTERISTICS: Irregularly shaped pit approximately 150'X 200'. (see diagram)

LINING: Pennzoil has agreed to line the reserve pit with a liner which I have examined and approved.

MUD PROGRAM: Surface hole-fresh H2O; Productive interval- 3% KCl mudding up as needed with low solids, non-dispersed fluid.

DRILLING WATER SUPPLY: Hauled from a nearby farm pond.

STIPULATIONS FOR APD APPROVAL

Reserve pit to be lined with a synthetic liner of at least 10 mil thickness

BEFORE THE BOARD OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

IN THE MATTER OF THE AMENDED:
PETITION OF ANR LIMITED INC.,
ET AL. FOR AN ORDER MODIFYING:
PREVIOUS ORDERS WHICH
ESTABLISHED DRILLING AND:
SPACING UNITS AND ANY OTHER
ORDERS RELATING TO TEST WELLS:
FOR THE ALTAMONT, BLUEBELL
AND CEDAR RIM-SINK DRAW:
FIELDS, DUCHESNE AND UINTAH:
COUNTIES, UTAH:

FINDINGS OF FACT, CONCLUSIONS OF LAW AND ORDER

Docket No. 85-007 Cause No. 139-42

Pursuant to the Amended Notice of Hearing dated March 4, 1985 of the Board of Oil, Gas and Mining ("Board"), Department of Natural Resources of the State of Utah, said cause came on for hearing on Thursday, April 11, 1985 at 10:00 a.m. in the Board Room of the Division of Oil, Gas and Mining ("Division"), 355 West North Temple, 3 Triad Center, Suite 301, Salt Lake City, Utah.

The following members of the Board were present:

Gregory P. Williams, Chairman
James W. Carter
Charles R. Henderson
Richard B. Larson
E. Steele McIntyre
John M. Garr, having recused himself,
did not participate

Mark C. Moench, Assistant Attorney General, was present on behalf of the Board.

Members of the Staff of the Division present and participating in the hearing included:

Dr. Dianne R. Nielson, Director Ronald J. Firth, Associate Director John R. Baza, Petroleum Engineer

Barbara W. Roberts, Assistant Attorney General, was present on behalf of the Division.

Appearances were made as follows: Petitioners ANR Limited, et al., by Frank Douglass, Esq. and Ray H. Langenberg, Austin, Texas; Robert G. Pruitt, Jr., Esq., Salt Lake City, Utah; Frank J. Gustin, Esq., Salt Lake City, Utah; Louis A. Posekany, Jr., General Counsel, and George W. Hellstrom, Esq., ANR Production Company; Phillip K. Chattin, General Counsel, Utex Oil Company; Hugh C. Garner, Esq., for Coastal Oil & Gas Corporation; Phillip William Lear, Esq., for Phillips Petroleum Company; Jeffrey R. Young, Esq., for Bow Valley Petroleum, Inc.; B. J. Lewis, Esq., Vice President, and Robert W. Adkins, Esq., Linmar Energy Corporation; Robert Buettner, Esq., Koch Exploration Company; Lane Jamison, Esq., Sonat Exploration Company; Victor Brown and Robert Brown, Utah Royalty Association; John Harja, Esq., Gulf Oil Corporation; Martin Seneca, General Counsel, Ute Indian Tribe; Assad M. Raffoul, Petroleum Engineer, Bureau of Land Management; John Chasel, on his own behalf; George Morris, Esq., Ute Distribution Corporation; Dr. Gilbert Miller, Conservation Superintendent, Amarada Hess Corporation; and L. A. Pike, Roosevelt, Utah, landowner.

Now therefore, the Board having considered the testimony of the witnesses, John C. Osmond, Petroleum Geologist; Clarke Gillespie, Petroleum Reservoir Engineer; and R. Thayne Robson, Economist, for Petitioners and B. J. Lewis, Vice President, and John W. Clark, Petroleum Engineer, for Linmar Energy Corporation, and the exhibits received at said hearing and being fully advised in the premises, now makes and enters the following:

FINDINGS OF FACT

- 1. Due and regular notice of the time, place and purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.
- 2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.
- 3. The Board has heretofore entered 640 acre drilling and spacing orders for the Lower Green River/Wasatch Formation in Causes No. 139-3, 139-4, 139-5, 139-8, and 139-17 (Altamont Field), Causes No. 131-11, 131-14, 131-24, 131-27, 131-32, 131-33, 131-34, 131-45 and 131-55, (Bluebell Field), and Causes No. 140-6 and 140-7 (Cedar Rim-Sink Draw Field) as to the following described lands:

UINTAH SPECIAL MERIDIAN

Township 1 North, Range 1 West Sections: 19-36

Township 1 North, Range 2 West Sections: 19-36

Township 1 North, Range 3 West Sections 23-26, 35 and 36

Township 1 South, Range 1 East Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 East Sections: 4-8,18-19, 30-31

Township 1 South, Range 1 West Sections: All (except Roosevelt Unit)

Township 1 South, Range 2 through 4 West 7 Sections: All

Township 1 South, Range 5 West Sections: 10-17, 20-36

Township 1 South, Range 6 West Sections: 25-26, 35-36

Township 2 South, Range 1 through 2 East Sections: All

Township 2 South, Range 1 through 6 West Sections: All

Township 2 South, Range 7 West Sections: 19, 30-36

Township 2 South, Range 8 West Sections: 23-26, 31-36

Township 3 South, Range 3 West Sections: 5-8, 17-20, 29-32

Township 3 South, Range 4 through 8 West Sections: All

Township 4 South, Range 3 West Sections: 5 and 6

Township 4 South, Range 4 West Sections: 1-6

Township 4 South, Range 5 West Sections: 1-6

Township 4 South, Range 6 West Sections: 1-18

SALT LAKE MERIDIAN

Township 5 South, Range 19 East Sections: 20-23, 26-29, 32-35

Township 6 South, Range 19 East Sections: 3-5, 9, 10, 15, 16, 22, 27 and 34

- 4. In Cause No. 140-12, the Board authorized the drilling of test or second wells that may only be produced alternatively with the initial well on the same drilling unit.
- 5. The Lower Green River/Wasatch Formation underlying the subject fields constitutes a pool as that term is defined in Utah Code Ann. §40-6-2(9) (1953, as amended), and is a highly complex series of isolated and discontinuous beds of productive rock that are randomly distributed vertically over a several thousand feet thick interval. Normally, the productive beds are separate and distinct and not in communication with each other.
- 6. Many of the productive beds are not correlatable from well to well and will not afford communication between wells as close as 1000 feet. Of the productive beds that correlate, various geological factors prevent a significant number form communicating between wells within the same section.
- 7. Geologic and engineering information from initial unit wells and test wells show that a single well will not effectively drain the recoverable oil and gas underlying any given 640 acre spacing unit because the productive beds are too

small or have other limiting characteristics precluding effective and efficient drainage of the recoverable reserves underlying the unit.

- 8. Data from production logs and field performance show that test wells drilled under the Order in Cause No. 140-12 after 1978 have caused the recovery of substantial amounts of oil from separate and distinct productive beds and from previously undepleted productive beds, and that the drilling of additional wells on existing units will increase the ultimate recovery of oil from the subject fields.
- 9. The prohibition of simultaneous production from the initial well and test well on the same unit has caused the shutting in of wells with the potential to produce substantial amounts of additional reserves.
- 10. Each additional well drilled under this order will tap producing formations that are separate and distinct from and not in communication with any other producing formation and is not an unnecessary well.
- ll. In some areas of the subject fields, geologic, engineering, and economic factors justify drilling additional wells on existing units. In other areas, geologic, engineering and economic factors may not justify drilling additional wells on existing units.

CONCLUSIONS OF LAW

1. Due and regular notice of the time, place and

purpose of the hearing was given to all interested parties as required by law and the rules and regulations of the Board.

- 2. The Board has jurisdiction over the matters covered by said notice and over all parties interested therein and has jurisdiction to make and promulgate any order hereinafter set forth.
- 3. The Board is authorized to modify its previous orders to permit additional wells to be drilled within established units under Utah Code Ann. §40-6-6(4) (1953, as amended).
- 4. An order permitting (a) the drilling of additional wells on existing units as provided herein and (b) the simultaneous production of initial wells and additional wells will prevent the waste of hydrocarbons, prevent the drilling of unnecessary wells, and protect correlative rights.

ORDER

IT IS THEREFORE ORDERED:

To prevent waste of oil, gas and associated liquid hydrocarbons, to avoid the drilling of unnecessary wells, to protect correlative rights and to maintain, to the maximum extent practicable, drilling units of uniform size and shape for the promotion of more orderly development of the lands described in Finding of Fact No. 3 above, the following order is hereby promulgated to govern operations in said area effective as of April 12, 1985:

- A. Upon the effective date any and all orders of the Board heretofore promulgated which are inconsistent with the orders herein set forth shall be and are hereby vacated to the extent inconsistent herewith.
- B. Additional wells may be drilled, completed, and produced on established drilling units comprising government surveyed sections of approximately 640 acres (or other designated drilling units so long as such unit is at least 400 acres in size) to a density of no greater than two producing wells on each unit comprising a section (or other designated unit).
- C. Additional wells may be drilled at the option of the operator of the unit, based upon geologic and engineering data for that unit which will justify the drilling of an additional well in order to recover additional oil, provided the additional well appears to be economically feasible.
- D. Economically feasible means that a prudent operator would have a reasonable opportunity to recover the costs of drilling, completing, producing and operating the well, plus a reasonable profit.
- E. It is not the intent of this order, in permitting additional wells to be drilled on established drilling units, to change or amend the existing contractual rights or relationships, express or implied, of any parties who share in production or the proceeds therefrom in the spaced area.

feet from the exterior boundary of the unit. No two wells may be drilled in any drilling unit within the same governmental quarter section or equivalent lot.

- G. If an operator elects to initially complete a well solely within producing formations that are separate and distinct from and not in communication with any other producing formation, the operator will use reasonable precautions in order that such well is not completed in any producing formation that may be effectively drained by any other well.
- H. Second or test wells drilled under previous orders as well as additional wells to be drilled under this order may be produced simultaneously with initial wells.
- jurisdiction of all matters covered by this order and of all parties affected thereby and particularly that the Board retains and reserves exclusive and continuing jurisdiction to make further orders as appropriate and authorized by statute and applicable regulations.

ENTERED this 17 day of April, 1985.

STATE OF UTAH BOARD OF OIL, GAS AND MINING

CHECODY D. WYLLTAMS Chairman

APPROVED AS TO FORM:

MARK C. MOENCH

Assistant Attorney General

CONFIDENTIAL .

OPERATOR Pen	rzoil Explor. E Prod	Co. (N2885) DA	TE 5-22-89	
	k 2-25A2	-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_
SEC NWNE 25	T <u>/S</u> R	2W COUNTY	Duchisne	_
43-013-3 API N	9	Fee TYPE C	F LEASE	
CHECK OFF:		/ (AS)		
PL	AT	BOND (USM)	NEAREST WELL	
LE	ASE	FIELD	POTASH O OIL SHAL	R . E
PROCESSING COMMEN	TS:	139-42 (lennzail	1-25A2 SENW)	Pour C. La
Water Permit	1- T89-43-8 /4. ite 5-22-89 / Re	3-3598 (Anderton) £ +89-43-7/4	
APPROVAL LETTER:				
SPACING: R	615-2-3	V/A UNIT	R615-3-2	
		2 <u>4-12-85</u> NO. & DATE	R615-3-3	•
STIPULATIONS:				
•	d (Bond Stipula	tion)	1. 1	
Synthe	reserve pit tic liner of	at least 10	mil Hickory	- 258 - -
0218T			CONFIDENTIAL PERIOD EXPIRED ON 3-83-91	_

UTAH DIVISION OF OIL, GAS AND MINING COMPLIANCE INSPECTION RECORD

INSPECTOR: D. INGRAM							
OPERATOR NAME: PENNZOIL E & P	LEASE: FEE						
WELL NAME: MARK 2-25A2	API: 43-013-31232						
SECTION: 25 TOWNSHIP: 1S RANGE:	2W						
COUNTY: DUCHESNE							
RULE VIOLATION: R649-3-15 NON COMPLIANCE: PER INSPECTION 8/25/95-BERM IS SOUTHWEST SIDE.							
DATE ASSIGNED: DEADLINE: DATE COMPLETED: ACTION REQUIRED: FIELD CHECK. IF BERM HAS CONTACT OPERATOR.	NOT BEEN REPAIRED.						
ACTION TAKEN: Berm 15 NOW REPGIRED AKOUNG TONKS	PROPUCTION						
INSPECTOR: Lanno Ing D	ATE: 3/8/96						

STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Pennzoil	Exploration	,	
	Z-25AZ		-013-3123Z
	o:(5		<u>?</u> ω
INSPECTOR: GARY GARNES			50 DATE: 7/11/89
REPRESENTATIVE: Danny	t		im Kowe
OPERATIONS: Drilling	ahead @	15,100'	
SPUD DATE:	·	_DEPTH:	
DRILLING AND COMPLETIONS	<u>5</u> :		
APD	WELL SIGN	1 .	SANITATION
BOPE	BLOOIE LI	NE	H2S
VENTED/FLARED	RESERVE P	IT	FLARE PIT
BURN PIT	HOUSEKEEP	ING .	
PLUGGING AND ABANDONMENT	S:		
PLUG TYPE			INTERVAL
PLUGS TESTED:	HOW		WOC
MARKER:SURFAC	Ε	PLATE	
RECLAMATION:			
CONTOUR	RIP	REHAB	
_EGEND: (Y)-YES (P)-PROB	LEM (U)-UNKNOW	N (BLANK)-NO	OT APPICABLE
REMARKS:	. , . ,		
APPROVED BY	HOW		DATE

STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: Pennzoil	Exploration	COMPAN	Y MAN:_	Dan La	mar	
WELL NAME: Mark 2-2	25AZ	API #:	4	3-013-	312	32.
OTR/OTR: NW NG SECTION	:25	TWP:	15	RANG	E:	zw
CONTRACTOR: Forwest	#6	PUSHER	R/DRLR:_	Tim	Row	و
INSPECTOR: Gary Garner	DATE: 6 28	89 OPERAT	TIONS:	Tripping	6	bit.
SPUD DATE:	•			,, -		
DRILLING AND COMPLETIONS						
APD	_well sign		BOPE		RESEF	RVE PIT
FLARE PIT	BURN PIT		H2S		BLOO	E LINE
SANITATION	_HOUSEKEEP	ING	VENTED	/FLARED		
PLUGGING AND ABANDONMENT		PRODUC	ING FM(5): Wasc	utch	Green Rive
PLUGS: TYPE/	SIZE		IN	TERVAL		•
	· · · · · · · · · · · · · · · · · · ·	-				
**************************************	·	-				
***************************************		· ·				,
		-				
		•				
PERFORATIONS:						
CASING SIZE:	PULLED:	YES / NO	CUT	AT:		· · · · · · · · · · · · · · · · · · ·
PLUGS TESTED:	HOW:		woc:_		······	
MARKER:	SURFACE:		PLA	TE:		
RECLAMATION:						
CONTOURED:	RIPPED:		REH	AB'D:		
LEGEND: (Y)-YES (P)-PROB	LEM (U)-U	JNKNOWN	(BLANK)-NOT API	PLICA	BLE
REMARKS: every thing of	د.					
0 0	•					
Manual Control of the					····	



State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203

May 26, 1989

Pennzoil Exploration & Prod. Co. P. O. Box 290 Neola, Utah 84053

Gentlemen:

Re: Mark 2-25A2 - NW NE Sec. 25, T. 1S, R. 2W - Duchesne County, Utah 670' FNL, 1798' FEL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 139-42 dated April 12, 1985, subject to the following stipulations:

- 1. Pennzoil, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
- 2. The reserve pit is to be lined with a synthetic liner of at least 10 mil thickness.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification within 24 hours after drilling operations commence.
- 2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
- 3. Submittal of the Report of Water Encountered During Drilling, Form 7.
- 4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (80l) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
- 5. Compliance with the requirements of Rule R6I5-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2 Pennzoil Exploration & Prod. Co. Mark 2-25A2 May 26, 1989

- 6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (80l) 538-6121.
- 7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31232.

Sincerely,

Associate Director, Oil & Gas

Ir Enclosures

cc: Branch of Fluid Minerals

D. R. Nielson

WE14/1-2

DIVISION OF OIL, GAS AND MINING

43.013.31030

SPUDDING INFORMATION

NAME OF COMPANY: PENNZOIL EX	(PLORATION &	PRODUCTIO	ON CO.	···	
WELL NAME: MARK 2-25A2	· ?				
SECTION NWNE 25 TOWNSHIP 1S	RANGE_	2W	COUNTY	DUCHESNE	· ·
DRILLING CONTRACTOR MAR	RTIN				
RIG # 1					
SPUDDED: DATE 5/23/89			- in to	aport A 1	
TIME 8:00 a.m.	. (ONE	IDEN	TAL	
How RAT HOLE	'	Olivi	10-		
DRILLING WILL COMMENCE 6/1/8	39	-		•	
REPORTED BY DAN LAMAN					
TELEPHONE # 353-4397	 	-			
		. •			
DAIE 5/30/89		SIGNED_	TAS	TAKEN 1	BY: JLT

STATE OF	UTAH		
DIVISION	OF OIL.	GAS A	INIM GNA

ENTITY ACTION FORM - DOGM FORM

P.O. Box 2967 Houston, Tx 77252-2967

OPERATOR CODE N 2885

PHONE NO. 1713, 546-4000

DIMMOIAL

CODE	ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME			TERESTS NECESSITATES CHANGE IN EXISTING ENT				SPUD	EFFECTIVE
						QQ	sc:		RG	COUNTY	DATE	DATE
A	99999	10986	4301331232	MARK 2	-25A2	NWNE	25	18	2W	Duchesne	05/23/89	
COMMENTS	:		Fee J Field Not i	lease - Bluebell n a Unit	-25A2 Proposed Zone (Enlity 1098	e-wstc 36 added	6-5-	39 Jcp				
OMMENTS												
OFFICE OF STREET					ti .							
OMMENTS:												
	.				•							
OMMENTS:				·				,				
Office 15:				,				•				
			·		-							
OMMENTS:							11		· .			

B - ADD NEW WELL TO EXISTING ENTITY

C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY

D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY

E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

STATE OF UTAH DIVISION OF OIL, GAS AND MINING CEMENTING OPERATIONS

COMPANY NAME: Pennzoil Exploration Co.
WELL NAME: Mark 2-25AZ 43-013-31232
QTR/QTR NW/NE SECTION 25 TOWNSHIP 15 RANGE ZW
CEMENTING COMPANY: Western WELL SIGN V
INSPECTOR: Gary Garner / Mike Laine DATE: 6/4/89
CEMENTING OPERATIONS:
PLUGBACK: SQUEEZE: CASING: P-A ZONE:
SURFACE CASING:INTERMEDIATE PROD CASING:
PERFORATIONS SQUEEZE PRESSURE
CASING INFORMATION:
SIZE 95/8 GRADE: 40 5-80 HOLE SIZE: 12/4 DEPTH: 3525'
SLURRY INFORMATION:
SLURRY INFORMATION: 1350 3x class G 1. CLASS: + .25 pps cello seal LEAD: +.125 pps Fiber TAIL: TAIL:
2. SLURRY WEIGHT: LEAD: 15.83 TAIL: 15.83
3. WATER (GAL/SK) LEAD:TAIL:
4. COMPRESSIVE STRENGTH PSI @ \275 HR \Z
PIPE CENTRALIZED Yes CEMENTING STAGES
LOST RETURNS BARRELS LOST
TOP OF CEMENT Sur Face PERF INTERVAL
CEMENT TO SURFACE? 405.
ADDITIONAL COMMENTS: real good cement job Danny Laman
company hand

STATE OF UTAH DIVISION OF OIL, GAS AND MINING DRILLING AND WELL PLUGGING INSPECTION FORM

COMPANY: <u>Pennzoil Exploration</u>	COMPANY MAN: Danny Laman
WELL NAME: Mark 2-25AZ	· · · · · · · · · · · · · · · · · · ·
OTR/QTR: NW NG SECTION: 25	TWP: 15 RANGE: ZW
CONTRACTOR: Forwest #6	PUSHER/DRLR: TIM ROC
INSPECTOR: Gary Garner DATE: 6/15/89	OPERATIONS: Drilling
SPUD DATE:	TOTAL DEPTH: 3321
DRILLING AND COMPLETIONS	
APDWELL SIGN	BOPERESERVE PIT
FLARE PITBURN PIT	H2SBLOOIE LINE
	IGVENTED/FLARED
PLUGGING AND ABANDONMENT	PRODUCING FM(S):
PLUGS: TYPE/SIZE	INTERVAL
	• • • • • • • • • • • • • • • • • • •
PERFORATIONS:	
CASING SIZE: PULLED: YE	CS / NO CUT AT:
PLUGS TESTED: HOW:	WOC:
MARKER: SURFACE:	PLATE:
RECLAMATION:	
CONTOURED: RIPPED:	REHAB'D:
LEGEND: (Y)-YES (P)-PROBLEM (U)-UN	
REMARKS: will be setting surface	Pipe @ 3500±
	-

PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

June 21, 1989

State of Utah, Dept of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, UT 84180-1203

Re: Report of Water Flow
Mark No. 2-25A2
NWNE Section 25, T1S, R2W
Duchesne County, Utah
API No: 43-013-31232

Gentlemen:

Enclosed please find the original and three (3) Copies of your Form 7 "REPORT OF WATER ENCOUNTERED DURING DRILLING" for captioned well while drilling 12 1/4" surface hole.

Should there be any question, please contact the undersigned at (801) 353-4397.

Sincerely,

Pennzoil Exploration And Production Company

Wilburn L. Luna

Drilling Superintendent

Enclosure

UT-40

PENAZOL RECEIVED
JUN 22 1989

DIVISION OF OIL. GAS & MINING

• REPORT OF WATER ENCOUNTERED DURING DRILLING - FORM 7

1.	1. Well name and number:Mark No. 2-25A2 API number: 43-013-31232										
2.	Well loca	tion: QQ	NWNE section 25	township 1	s_range 2W_ county <u>Duchesne</u>	_					
3.	Address: .	P.0	nzoil Exploration . Box 290 la, UT 84053	and Product	ion Company phone: <u>801-353-4397</u>	-					
4.	4. Drilling contractor: Forwest, Inc. Address: 11211 Katy FWY., Suite 530 phone: 713-932-7976 Houston, TX 77079										
5.	Water enc	ountered	(continue on reverse	side if necess	ary)						
	De from 450' 844'	to 689' 875'	51Psi on shutin increased weight	or head) Killed w/10. 10.0 to 10.	2# FRESH						
	2287'	2287'			Saltly, chlorides up 300± PPM. Saltly, chlorides up another 750) PPN					
6.	6. Formation tops:										
	an analysi ort to thi No analys	s form.		ter encounte	ered, please attach a copy of the	- - - -					
Ιc	I certify that this report is true and complete to the best of my knowledge.										
	Name Wilburn L. Luna Signature Wilburn L. Fura Title Drilling Superintendent Date June 20, 1989										

Comments:

888 SOUTH LIPAN, SUITE C DENVER, COLORADO 80223 (303) 936-0161

August 18,1989

To:

Utah Oil, Gas, & Mining

355 West North Temple

Suite 350

Salt Lake City, UT 84180

From: Marjorie A. Pirece

EDWARD ENGINEERING 888 South Lipan Denver, CO 80223



DIVISION OF OIL, GAS & MINING

RE:

Transmittal of Geological Report

Pennzoil Company

Mark 2-25A2

Bluebell-Altamont Field

Duchesne Co., Utah -013-31938

I have enclosed a copy of the geological report for Mark 2-25A2, which was just recently drilled by Pennzoil Section 25, T1S, R2W, Duchesne Co., Utah. If you have questions please do not hesitate to contact me at one of these phone numbers:

> 303-936-0161 Denver Office 303-466-6277 Home

Marjorie A. Pierce

CONFIDENTIAL

CONFIDENTIAL

EDWARD ENGINEERING



DIVISION OF OIL, GAS & MINING

PENNZOIL COMPANY

Mark 2-25A2

NWNE Section 25, T1S, R2W Bluebell - Altamont Field Duchesne Co., Utah

> EDWARD ENGINEERING Marjorie A. Pierce Geological Engineer

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- I. Well Summary
- II. Geologic Summary
- III. Electric Log Tops
- IV. Summary of Potential Productive Intervals Recommended for Perforation
- V. Drilling and Logging Summary
- VI. Daily Log of Operations
- VII. Bit Record
- VIII. Mud Record
 - IX. Memos Re: Recommended Perforations
 - X. Distribution of Records
 - XI. Drilltime Log

WELL SUMMARY - MARK 2-25A2

OPERATOR:

Pennzoil Company

LEASE:

Mark 2-25A2

LOCATION:

Field: Bluebell-Altamont Field Legal: NWNE Section 25, T1S, R2W

670' FNL, 1798' FEL

County: Duchesne County, Utah

ELEVATION:

Ground Level: 5486' Kelly Bushing: 5513'

SPUD DATE:

7 June 1989

CEASE DRILLING:

22 July 1989

TOTAL DEPTH:

13,300' Driller

13,300' Steel Line Measure

13,305' Logger

13,300' Final Total Depth

CASING PROGRAM:

9 5/8" Surface Casing set at 3522'

7" Casing set at 13,300'

MUD PROGRAM:

Mud Company: NL Baroid Mud Engineer: Jim Garcia

Water: surface - 680' Mud Type:

Gel- Barite: 680'- 3525'

Water: 3525'- 10,500'

LSND: 10,500'- 13,300' T.D.

SAMPLE PROGRAM:

Caught: 30' surface - 5,500'

10' 5,500' - 13,300' Examined: 5,500' - 13,300' by mudloggers verified

by wellsite geologist

Mudlogging: Datalog/Western

Lithology only from surface to 5500' 24 hour - 2 man unit 5500'-11,677' 12 hour - 1 man unit 11,677'-13,300'

FID total gas detection

FID Chromatography

Mudloggers: Larry Gunther, Terry Ross

CONTRACTOR:

Forwest Rig No. 6

Toolpushers: Tim Roe, John Arndt

Drillers: Jeff Duncan, J.D. Foreman,

Tom Myron, Dwain Peay

ELECTRIC LOGGING: Schlumberger

Run 1: Engineer: Jeff Gebhart

Log Types: Dual Laterolog

3521'- 13,304'

Micro-SFL

6000'- 10,200'

Gamma Ray

surface- 13,304'

Compensated Neutron - Litho-

Density 6000'- 13,305'

Digital Sonic - SLA

3521'- 13,305'

Digital Sonic Waveforms

6000'- 13,305'

Formation Microscanner

selected intervals between

7150'- 13,300'

4-Arm Caliper

3521'- 13,305'

RWA

6000'- 13,305'

WELLSITE SUPERVISOR: Danny Laman, W.M. Smith - "Smitty"

John Moore

WELLSITE GEOLOGIST: Marjorie A. Pierce

The Pennzoil Company Mark 2-25A2 was drilled as a Wasatch test in the NWNE of Section 25, T1S, R2W of Duchesne County, Utah. The Mark 2-25A2 was drilled to a total depth of 13,300 feet, 200 feet above the projected T.D. of 13,500 feet. The well penetrated 68 feet below the top of the Three Fingered Lime and 214 feet below show #20 at 13,086 feet, the last show encountered in the Mark 2-25A2. This new development well is a northeast offset to the recently drilled Pennzoil 3-35A2 Wisse. The Mark 2-25A2 well is surrounded by Wasatch and Green River producers.

The Mark 2-25A2 penetrated 6,092 feet of the Uinta and Duchesne formations, followed by approximately 4,788 feet of Green River formation, and 2,420 feet into the Wasatch formation before reaching a total depth of 13,300 feet. Several water flows were encountered at the Mark 2-25A2 location while drilling through the Unita and Duchesne formations. A 4" flow was first observed at a depth of 680 feet and was killed with The second flow was observed from 844 to 10#/gal. mud weight. 875 feet where the mud weight was increased to 10.2#/gal. third flow was encountered at a depth of 2127 to 2139 feet and was killed with 10.6#/gal. A fourth water flow occurred at a depth of 2287 feet where the mud weight was raised to 10.7#/gal. The well began to flow a 3" stream on a wiper trip at 3312 feet so the mud weight was increased to 11.0#/gal. before reaching surface casing point at a depth of 3525 feet. The hydrocarbon bearing intervals in the Bluebell-Altamont Field include the Green River and Wasatch formations which are both Tertiary in These formations represent a period of sedimentation dominated by a lacustrine type environment.

Green River formation is comprised of lake type deposits including varved shales, marlstones, carbonates, and occasional sand. The "H", also referred to as the Douglas Creek member of the Green River, and "HI" intervals appear to be good These two intervals time lines for correlation purposes. of fractured carbonates and dark gray-black shales consist indicating a time when most of the basin was submerged by the The Green River has been subdivided into three lake waters. stages for completion purposes which may be altered at the operator's discretion: Stage V (6,092'-7,440'), the Upper Green River littoral facies with 168 feet of potential pay; Stage IV (7,440'-9,406'), the Upper Green River separated from the littoral facies by the Trona I with 390 feet of potential pay; and Stage III (9,406'-10,860'), the Lower Green River lacustrine facies with 509 feet of potential pay. Stages III, IV, and V are all normally pressured and a total of 1,067 feet or 22% of the Green River formation may be potentially productive. Green River formation was drilled with water to a depth of 10,600 feet before switching the system to mud. The Green River shows in the Mark 2-25A2 appear to be relatively poor in

comparison to other recently drilled Green River sequences.

The Wasatch formation was deposited when an influx of sediments from the Wasatch mountain range encroached the basin. Generally, this was a transitional type deposit dominated by red return to a more euxinic lacustrine followed by a environment and then back to the transitional red bed sequence. The second transitional red wedge was not penetrated by the Mark 2-25A2, drilling ceased at a depth of 13,300 feet in the lacustrine facies of the Wasatch formation. The Wasatch formation penetrated in the Mark 2-25A2 from a depth of 10,880 feet to a depth of 11,594 feet was normally pressured. The first occurrence of abnormal pressure was encountered with show #13 (11,594'-11,636') where it was necessary to increase the mud weight from 9.3#/gal. to 12.0#/gal. The well reached total depth of 13,300 feet with a maximum mud weight of 13.6#/gal. Intermediate casing was not necessary at this location. Wasatch formation has been divided into two stages relative to the different lithofacies for completion purposes; Stage II (10,860'-11,860') the Wasatch 1st Red Wedge has 443 feet of and Stage I (11,860'-13,300') the Wasatch potential pay; lacustrine facies has 569 feet of potential pay. The Wasatch formation has a total of 1,012 feet of potential pay or 42% of total Wasatch section penetrated by the Mark 2-25A2. Potential production from the Wasatch formation at this location is to be very good, especially from the intervals expected including show #13 (11,594'-11,636') and show #19 (12,895'-12,903') which flowed quite a bit of yellow-brown Wasatch type crude oil during drilling, making it necessary to shut the well in and circulate on the choke while raising the mud weight to stop the flow of the oil.

Summaries of the potential productive intervals recommended for perforation for Stage I, II, III, IV, and V follow the list of electric log tops. A copy of the memos sent to Gary Kornegay which accompanied the log panels regarding the recommended perforation schedules have been included at the end of this report. Please refer to the mud log provided by Datalog/Western for a detailed description of the samples which were examined and verified daily by the geologist and the mudloggers. Datalog also provided a lithology log for the uphole Uinta and Duchesne formations for the Mark 2-25A2 as requested by the engineering department.

ELECTRIC LOG TOPS - MARK 2-25A2

Formation	<u>Depth</u>	Subsea	Structural Comparison to Tomlinson 1-25A2
Green River	6092	- 579	19' low
Green River/Z	6962	-1449	24' low
Evacuation Creek	7036	-1523	28' low
Trona I	7440	-1927	38' low
Parachute Creek	8064.	-2551	4' high
Mahogany Bench	8174	-2661	12' low
Green River/DJ	8652	-3139	16' low
Douglas Creek/H	9406	-3893	25' low
Green River/HI	9626	-4113	31' low
CP 70	10,254	-4741	7' low
Wasatch/ Top of Red Wedge	10,880	-5367	
Base of Red Wedge	11,860	-6347	
Wasatch/TAP Hi	11,610	-6097	
Wasatch/200	12,474	-6961	31' low
Wasatch/215	12,794	-7281	33' low
Wasatch/216	12,916	-7403	33' low
Wasatch/TFL	13,232	-7719	39' low
Total Depth	13,300	-7787	

MARE 2-25A2 STAGE I - Wasatch Lacustrine Facies, overpressured

	٠	GR	RT		0il					Net		
B-Log Depth	Mudlog			Total Gas		Mud W	t. Samp	le Pract	Show			Remarks
GR on DLL	Depth	API	ohns	units	Mud	in/o	-		Report	Pay		
********	*********	****	****	*******	*****	******	*******	******	******	****	******	*********
11,860	11,860	Base	of 1	st Red Wed	ge, to	p of Was	atch Lacu	strine P	acies, ov	erpre	ssured	
11,900-08	11,900-08	yes	y es	1000-1800	no	12.0/11	.7 no				fair	
11,920-44	11,920-44		80me	850-1800		12.0/11		fl		24	fair	
11,954-64	11,954-64	-		1500-4232	y es	12.0/11		fl	‡ 15	10	v.good	dk. yellow oil
12,006-20		-	-	850-950	no	11.9/11				14	fair	
12,040-54	12,040-54			950-3106	no	12.0/11		fl	#16		good	
12,088-92	12,088-92	-	•	800-850	no	12.0/11					poor	
12,116-36	12,116~38		î	750-5612	bū	12.1/10		fl	#17		good	bub pulled tight
12,150-56	12,150-56		?	5500-6300		12.0/10		fl			fair	DLL pulled tight
12,166-70	12,166-70		y es	5500-7200		12.0/10		fl			fair	
12,182-88	12,182-88					12.0/10		fl			fair	
12,196-242	12,196-242					12.0/10		fl			fair	lost 198 bbls.
12,360-424	12,360-424					12.2/9.		fl ·	‡ 18		good	dk. green oil
12,462-72	12,462-72		-		no	12.5/12	l no			10	fair	lost 279 bbls.
12,474	12,474			CP200								
12,496-512	12,496-512			4000-5200		12.5/12.					fair	1' flare
12,520-27	12,520-27			5500-6000		12.5/12.					fair	1' flare
12,534-44	12,534-44	•	y es	6000-6800		12.5/12.					fair	1' flare
12,548-52			yes	6800-6700		12.5/12.					poor	1' flare
12,560-65	12,560-65		yes	6800-6800		12.4/12.					poor	1' flare
12,578-86			-	6500-6000	no	12.5/12.					poor	1' flare
12,602-12	12,602-12		y es	5500-7000		12.5/12.		fl			fair	1' flare
12,630-38	12,630-38		y es	8700-6000		12.5/12.					poor	1' flare
12,644-51	12,644-51		yes	6000-6800	no	12.5/12.					poor	1' flare
12,668-80	12,568-80		y es	5800-6100	no	12.5/12.		A1			fair	slight flow
12,700-04	12,700-04		yes	5200-5200	ВO	12.5/11.		fl			poor	
12,713-23	12,713-23		y es	5500-5000	no	12.5/11.					poor	
12,727-30	12,727-30		708	4800-4800	nc	12.5/12.					poor	
12,746-51	12.746-51	-	y es	4500-4500	no	12.5/12.		fl			poor	
12,756-65	12,756-65		yes	5000-5206	ВO	12.5/12.					poor	
12,778-86	12,778-86	-	yes	4800-5000	no	12.5/12.	2 no			ğ	poor	
12,794	12,794			CP215		10 5/10						- ;
12,794-800						12.5/12.					fair	
	12,806-26		-			12.5/12.		41			poor	
	12,856-68			4800-5500		12.4/12.		fl	• • •		fair	
	12,892-906				ib yes	12.5/9.3	no		# 19	14	v.good	20 bbl. gain
	12,916			CP216		10 0110	•	63				
	12,920-44					13.6/13.		fl			good	dk.yellow brown oil
	12,954-64	-	-	3000-3200	-	13.5/13.		0.7			fair	1' flare
	12,390-006		-			13.5/13.		î1			fair	1-2' flare
•	13,036-58	•	•		-	13.5/13.		fl	464		fair	DLL pulled tight
	13,085-90				-	13.5/12.		fl	#20		fair	bypass gas buster
13,099-112	13,099-112	y es	Some .	3200-2200	y es	13.6/12.	9 no	fl		13	poor	lost 270 bbls.

SUMMARY OF POTENTIAL PRODUCTIVE INTERVALS RECOMMENDED FOR PERFORATION

MARK 2-25A2 STAGE I - Wasatch Lacustrine Pacies, overpressured

B-Log Depth GR on DLL	Depth	(60 API	ohns		Hud	Mud Wt. in/out			Report	Pay	Quality	Remarks
13,120-28	13,120-28					13.6/13.0	no	fl	**********		poor	
13,142-50	13,142-50	yes	yes.	1800-1800	no	13.6/13.3	no	fl		8	poor	change H2 supply
13,162-76	13,162-76	80me	Bone	1800-1800	no	13.6/13.2	no			14	poor	
13,198-225	13,198-225	yes	yes	2200-3100	no	13.6/13.3	no			27	fair	•
13,232	13,232											
13,234-44	13,234-44	yes	yes	2100-2500	no	13.6/13.1	no	fl		10	fair	lost circ., 475 bbls.
11111111111	********	****	****	*********	11111	**********	1111111	*****	******	::::	*******	*********
							STAGE	SUBTO	TAL	569		

MARE 2-25A2 STAGE II - Wasatch 1st Red Wedge, normal pressure overpressured

R-Log Depth GR on DLL	Mudlog Depth	GR (60 API	RT >30 ohms	Total Gas	Oil in Mud	Mud Wt. in/out	Sample Show	Fract	Show Report	Net Pt. Pay		Remarks
********	•					· ·	******	*****	•	•	******	******
10,880	10,880	Wasa	tch /	Top of 1st	Red	Wedge						
10,906-38	10,906-38	yes	y es	2500-3500	yes	9.1/9.0	DO	fl		32	fair	
10,964-70	10,964-70	y es	yes	2800-3000	y es	9.0/8.9	no	fl	*	6	fair	
10,974-82	10,974-82	y es	some	2800-2800	yes	9.0/8.9	no	fl		8	poor	
10,996-006	10,996-006	yes	some	2500-1500	yes	9.1/8.9	no	fl		10	poor	
11,012-15	11,012-15	yes	yes	1600-1600	yes	9.1/8.9	no	fl			poor	
11,032-42	11,032-42	yes	yes	1500-1200	yes	8.9/8.9	no			10	poor	
11,062-67	11,062-67	yes	yes	1100-1100	yes	9.0/8.9	no	fl		5	1000	
11,104-264	11,104-264	yes	some	2000-7037	y es	9.1/8.8	no	fl	#9-#10	160	good	lt.green oil
11,284-90	11,284-90	yes	yes	3100-3100	yes	9.1/8.6	no	fl		6	fair	
11,304-18	11,304-18	yes	yes	2500-2900	yes	9.0/8.9	no	fl		14	fair	
11,356-92	11,356-92	yes	some	2200-6252	yes	9.1/8.7	yes	fl	# 11	36	good	dk.brown oil
11,416-22	11,416-22	yes	808e	6500-6500	yes	9.1/8.7	no	fl			poor	
11,429-33	11,429-33	yes	yes	6000-6000	yes	9.1/8.7	no	fl			poor	
11,466-70	11,466-70	yes	yes	6000-7200	•	9.1/8.9	no	fl		4	poor	
11,480-516	11,480-516	yes	no	6000-9234	yes	9.3/8.9	yes	fl	#12		good	
11,524-42	11,524-42	yes	yes	6800-5200	yes	9.3/9.0	no				fair	
11,548-54	11,548-54	yes	yes	6800-7200	yes	9.3/9.0	no	fl		6	fair	
•		yes	y es	6500-6500	yes	9.3/9.1	no	fl		4	fair	
11,594-636	11,594-636	-	-	6000-11,514	•	9.3/12.0	no	ft,fl	‡ 13		v.good	TAP Hi
•		•		3000-3000	•	12.0/11.5	no	fl			fair	yellow oil
11,704-07	11,704-07	yes	yes	1200-1600	•	12.0/11.5	no	fl			fair	-
•	•	yes	yes	2000-3340	•	12.0/11.5	no	fl	\$14	8	good	dk.yellow oil
11,860	11,860	•	•	Base of 1st	•	•			•		_	•
*********	•		•			-						

STAGE II SUBTOTAL 443

MARK 2-25A2 STAGE III - Green River Lacustrine, normal pressured (includes "H" & "HI")

		GR	RT		Oil					Net		
B-Log Depth	Mudlog	(60	>30	Total Gas	in	Mud Wt.	Sample	Fract	Show	Pt.	Quality	Remarks
GR on DLL	Depth	API	ohms	units	Mud	in/out	Show		Report	Pay		
*********	********	****	:::::	********	****	*********	******	******	*******	****	*******	*********
9406	9406			er - Dougla								
9424-88	9424-88		yes	420-550		Drlg.	y es	fl		64	fair	
9500-04	9500-04	yes	yes	520-520	yes	w/water	no	fl		4	poor	
9532-42	9532-42	yes	yes	520-700	yes		no	fl		10	fair	
9562-76	9562-76	y es	yes	600-810	yes		no	fl		14	fair	
9626	9626			er - "HI"								
9626-88	9626-88		yes	700-820	yes	Drlg.	no	fl			fair	
9698-708	9098-708	jėš	ĵes	750-580	363	w/water	r.c	fl		10	fair	DLL pulled tight
9734-70	9734-70	yes	yes	550-700	yes		no	fl		. 36	fair	
9850-66	9850-66	Bome	yes	650-650	yes		100			16	poor	test gas buster
9874-86	9874-86	yes	yes	650-710	yes		no	fl			poor	
10,090-110	10,090-110			650-850	yes.		no	fl	‡ 7		fair	DLL pulled tight
10,118-24	10,118-24	yes	yes.	700-680	y es		no				poor	
10,134-40	10,134-40	8016	y es	700-800	yes ·		no				fair	
10,176-80	10,176-80	yes	some	600-650	yes		no	fl			poor	
10,186-90	10,186-90	yes	yes	550-550	yes		no				poor	
10,204-22	10,204-22	some	yes	550-630	yes		no			18	fair	
10,254	10,254	Gree	n Riv	er - CP 70								
10,254-323	10,254-323	yes	yes	720-800	yes	Drlg.	no				fair	
10,328-36	10,328-36	some	80me	580-600	yes	w/water	no	fl			poor	
10,374-80	10,374-80	yes	y es	680-680	yes		no	fl			poor	
10,388-400	10,388-400	yes	80me	620-450	yes		no	fl			poor	
10,492-508	10,492-508	yes	y es	500-550	yes		no	fl			poor	
10,526-30	10,526-30	yes	yes	600-600	yes		no	fl			poor	
10,542-74	10,542-74	yes	yes	500-3000	yes		no	fl	#8		good	oil, 15' flare
10,594-604	10,594-604	yes	no	NR	y es		no .				poor	trip, no bottoms up
10,610-14	10,610-14	y es	yes	650-650	yes		no	fl			poor	_
10,630-38	10,620 38	yes	SORC	2000-2800	362	mudding up	ne	fl			poor	bypass gas buster
10,650-70	10,650-70	yes	some	880-1200	yes	8.7/8.6	no			20	fair	
10,682-96	10,682-96	yeε	yes	1900-2300	yes	8.7/8.6	no	fl			fair	
10,742-50	10,742-50	yes	yes	1800-1800	yes	8.9/8.8	no	fl			poor	
10,838-44	10,838-44	yes	yes	2000-2000	yes	9.0/8.9	no	fl			poor	
10,848-54	10,848-54	yes	yes	1800-1200	yes	9.1/9.0	no	fl			poor	
**********	*********	11111	:::::	*******	11111	*********	******	******	*******	11111	*******	**********

STAGE III SUBTOTAL

509

SUMMARY OF POTENTIAL PRODUCTIVE INTERVALS RECOMMENDED FOR PERFORATION

MARK 2-25A2 STAGE IV - Upper Green Biver, below Trona I, normal pressured

B-Log Depth GR on DLL	Depth	GR RT (60 >30 API ohm	Total Gas units	Oil in Mud	Mud Wt. in/out	Show	Fract	Report	Pay	Quality	Remarks
7440	7440	Graan Pi	ver - Trona	T			******	*******	****	******	• • • • • • • • • • • • • • • • • • • •
7490-514	7490-514	some no	28-850	yes	Drlg.	no	fl	‡ 3		good	between Trona zones
7826-80	7826-80	yes yes		•	w/water	no			54	fair	
8064	8064	Green Ri	ver - Paraci	ute (reek						
8058-106	8058-106	some yes	200-500	yes		no	fl	#4	48	fair	lt. brown oil
8174	8174	Green Ri	ver - Mahoga	iny Be	nch						
8174-232	8174-232	some yes	45-250	yes	Drlg.	yes	fl		58	fair	
8250-32	8250-92	705 705	90-175	788	w/water	708	fl		19	fair	
8326-70	8326-70	some yes	75-450	yes		yes	fl		44	fair	
8652	8652	Green Riv	ver - "DJ"	•		·					
8888-928	8888-928	yes yes	500-2900	yes	Drlg.	yes	fl	‡ 5	40	good	black tar
9284-364	9284-364		600-2000	•	w/water	yes	fl	# 6	80	good	brown oil
*********	********	*******	********	****	*******	*****	******	******	****	******	********
						STAGR	IV SUBT	OTAL.	390		

SUMMARY OF POTENTIAL PRODUCTIVE INTERVALS RECOMMENDED FOR PERFORATION

MARK 2-25A2 STAGE V - Upper Green River, littoral, normal pressured

R-Log Depth GR on DLL	Mudlog Depth	GR RT <60 >30 API ohma	Total Gas units	Oil in Mud	Mud Wt. in/out	Sample Show	Fract	Show Report	Net Pt. Pay	Quality	Remarks
11111111111	********	********	*********	****	**********	*******	******	*******	*****	******	*********
6092	6092	•	een River								
6178-200	6178-200	some yes	2-20	no	Drlg.	no	fl		22	fair	
6222-44	6222-44	some yes	7-55	no	w/water	y es	fl	#1	22	good	black tar
6260-74	6260-74	yes yes	30-5	no		no			14	poor	
6304-30	6304-30	some yes	4-48	no		no			26	fair	
6414-24	6414-24	yes yes	80-180	no		no -			10	fair	
6768-76	6768-76	yes yes	70-70	no		no			8	poor	
6798-812	6798-812	yes yes	89-83	10		no.	fl		14	poor .	
6962	6962	Green Riv	er - "Z"								
7036	7036	Green Riv	er - Evacua	tion	Creek						
7368-420	7368-420	some yes	60-85	y es		n o	fl	#2	52	fair	black tar
*********	********	********	*********	****	***********	******	******	*******	****	******	*********
						STAGE	V SUBTO	TAL	168		

The Mark 2-25A2 was spud on June 7, 1989 and Forwest Rig started drilling a 12-1/4" hole. Several water flows were encountered in the upper portion of the hole, as previously discussed in the Geologic Summary, requiring a mud weight of 11.0#/gal. prior to reaching the surface casing point of 3,525 9-5/8" surface casing was set and cemented at 3,522 feet and the drilling of a 8-3/4" hole with water resumed. It was not necessary to mud up until a depth of 10,600 feet was A depth of 11,500 feet was attained at 11:00 A.M. MST, at which point the rig contractor switched from a footage contract to a daily rate basis. Abnormal pressure encountered at a depth of 11,594 feet with show #13 in the Mark The mud weight was increased from 9.3#/gal. to 12.0#/gal. to stop the flow of yellow-brown paraffinic oil. The Mark 2-25A2 was drilled to a total depth of 13,300 feet with a maximum mud weight of 13.6#/gal. The total mud lost during the drilling of the Mark 2-25A2 was estimated at 1937 barrels. After logging the well at T.D., 5-1/2" production casing was set at 13,300 feet and a three stage cement job was attempted unsuccessfully.

Schlumberger logged the open hole after the total depth of 13,300 feet was reached. The Dual Laterolog with Micro-SFL was run first. Very rough hole from a depth of 10,200 feet to T.D. made it impossible to open the calipers for the Micro-SFL. The rough hole was caused by fracturing and washouts which were particularly severe in the Wasatch Red Wedge. The Micro-SFL was logged only from 10,200 feet to 5,950 feet. It is recommended that future wells logged by Schlumberger use the alternate version of the Micro-SFL with a single arm caliper instead of used on this job. The Compensated Neutronthe 4 arm tool Lithodensity was logged next. After these two logs were completed the hole was circulated and conditioned prior to running the sonic log. The Digital Sonic Log was run from T.D. (13,305') to surface casing (3521') with Digital Sonic Waveforms from T.D. to 6000 feet. After the sonic log was completed successfully, a 4-arm Caliper log was run from T.D. (13,305') to surface casing (3,521') in order to obtain better data on the hole volume for the purpose of calculating the amount of cement This extra log needed to cement the 5 1/2" production casing. was necessary since we were unable to get a caliper log over the lower portion of the hole as mentioned above. The 4-arm Caliper log was also instrumental in delineating fractured intervals to The hole was then circulated and be logged with the FMS tool. conditioned before logging the FMS. The Formation Microscanner with a Dipmeter was logged over selected intervals between 7150 feet and 13,300 feet. 5-1/2" production liner was set at the total depth of 13,300' and the well is currently waiting on orders concerning the completion of the unsuccessful cement job.

DAILY LOG OF OPERATIONS FOR MARK 2-25A2 (6:00 AM depths)

`		,,		•
DATE	DAY	DEPTH	FOOTAGE	OPERATIONS
*********	******	******	******	*******
24-May-89		38	86	Drlg. 24" conductor hole.
25-May-89		86	0	Building location.
26-May-89		124	38	Set & cement 16" conductor.
27-May-89		124	0	Building location.
28-May-89		124	0	Building location.
29-May-89		124	0	Building location.
30-May-89		124	0	Building location.
31-May-89		124		Building location.
01-Jun-89		124		Rig up.
02-Jun-89		124		Rig up.
03-Jun-89		124		Rig up.
04-Jun-89		124		Rig up.
05-Jun-89		124		Rig up.
06-Jun-89		124		Rig up.
07-Jun-89	1	160	36	Spud 6/7/89 @ 4:30 AM MST,
				drlg. #1.
08-Jun-89	2	965	805	Drlg. #1; 4" water flow @ 680';
				kill flow w/10# mud; water flow
	_			@ 844'-875'; build mud to 10.2#.
09-Jun-89	3	1525	560	Drlg. #1; trip for bit #2;
				wash 60' to bottom; drlg. #2.
10-Jun-89	4	2270	745	Drlg. #2; water flow @ 2127'-
	_			2139'; raise mud wt. to 10.6#.
11-Jun-89	5	2705		Drlg. #2; water flow @ 2287'.
12-Jun-89	6	3055		Drlg. #2.
13-Jun-89	7	3312	257	Drlg. #2; make wiper trip;
	•	0.4.4.0	104	tight hole @ 987'.
14-Jun-89	8	3446	134	TIH w/#2; wash to bottom 2318'-
				3315' excessive pea gravel;
15 7 00		0505	7.0	drlg. #2.
15-Jun-89	9	3525	. (9	Drlg. #2; circ. & cond. to run
16-Jun-89	4.0	2505	^	9 5/8" casing.
10-Jun-69	10	3525	U	9 5/8" casing set & cemented @ 3522'; WOC; install BOP & test;
17-Jun-89	11	3525	0	nipple up BOP. Nipple up & test BOP.
18-Jun-89	12	3934		Test 9 5/8" csg.; cut drlg. line;
10-0411-03	12	0304	403	TIH w/bit #3; drill out cement;
				test csg. seat; drlg. #3.
19-Jun-89	13	4700	766	Drlg. #3; leak off test @ 4026';
15 0011 05	10	4100	100	drlg. #3.
20-Jun-89	14	5336	636	Drlg. #3; leak off test @ 4797';
Lo oun oo	* 1	0000	000	drlg. #3.
21-Jun-89	15	6151	815	Drlg. #3.
22-Jun-89	ÌĜ	6633		Drlg. #3; trip for bit #4;
	-0			wash 120' to bottom; drlg. #4.
23-Jun-89	17	7331	698	Drlg. #4.
24-Jun-89	18	7595		Drlg. #4; trip for bit #5;
				wash 120' to bottom; drlg. #5.
25-Jun-89	19	8250	655	Drlg. #5.
26-Jun-89	20	8580	330	Drlg. #5; rig repair.

27-Jun-89	21	8845	265	Drlg. #5; trip for bit #6; magnaflux D.C.s; wash 240' to bottom; drlg. #6.
28-Jun-89 29-Jun-89	22 23	9422 9754		Drlg. #6. Drlg. #6; trip for bit #7; well flowing; displace hole w/9.2#/gal mud; finish TOOH; TIH w/bit #7; wash 120' to bottom; displace hole w/ brine water; drlg. #7.
30-Jun-89 01-Jul-89	24 25	10347 10627		Drlg. #7. Drlg. #7; trip for bit #8; wash 42' to bottom; drlg. #8.
02-Jul-89 03-Jul-89 04-Jul-89 05-Jul-89	26 27 28 29	10888 11103 11288 11455	215 185	Drlg. #8. Drlg. #8. Drlg. #8; trip for bit #9. TIH w/bit #9; cut drlg. line; wash 90' to bottom; drlg. #9.
06-Jul-89	30	11625	170	Drlg. #3; circ. on choke & raise mud wt. from 9.3 to 9.7#/gal. Forwest on daywork @ 11:00 AM 7-5-89.
07-Jul-89	31	11633	8	Circ. on choke & raise mud wt. from 9.2 to 10.2#/gal.; drlg. #9: took 53 bbl. gain; circ. on choke unable to raise wt. due to 25-30% oil in mud; mix & wt. up new mud; circ. on choke.
08-Jul-89	32	11648	15	Circ. & cond. mud to 12#/gal.; kill well w/12# mud; wash 70' to bottom; pump LCM pill; drlg. #9.
09-Jul-89	33	11680	32	Drlg. #9; trip for bit #10; magnaflux DCs; PU shock sub; TIH; break circ. @ 8800'; TIH; drlg. #10.
10-Jul-89	34	11876	196	Drlg. #10.
11-Jul-89	35	12062		Drlg. #10.
12-Jul-89	36	12237	175	Drlg. #10; lost 218 bbls. of mud.
13-Jul-89	37	12357	120	Trip for bit #11; break circ.; TIH; wash 80' to bottom; drlg. #11; ream tight hole 12,210-240'; drlg. #11; lost 198 bbls. of mud.
14-Jul-89	38	12534		Drlg. #11; lost 279 bbls. of mud.
15-Jul-89	39	12618	84	Drlg. #11; trip for bit #12; cut drlg. line; TIH; break circ. @ 10,000'; TIH; wash 40' to bottom; drlg. #12.
16-Jul-89 17-Jul-89	4 0 4 1	12778 12903		Drlg. #12. Drlg. #12; shut in well; circ. or
				choke & raise mud wt. from 12.5 to 12.8#/gal.
18-Jul-89	42	12909	6	circ. on choke and build mud wt. to 13.3#/gal.; circ. on choke & raise mud wt. to 13.5#/gal.;
19-Jul-89 20-Jul-89	43 44	13097 13255		drlg. #12. Drlg. #12; lost 185 bbls. of mud. Drlg. #12; lost 62 bbls. of mud.
,				

21-Jul-89	45	13279	24	Drlg. #12; lost circ. @ 13,277'; mix LCM; regained circ. in 3 hrs. circ. & cond. mud; trip for bit #13; circ. & cond.; drlg. #13; lost 675 bbls. of mud.
22-Jul-89	46	13300	21	Drlg. #13; reached T.D. 13,300' € 9:00 AM 7-21-89; circ. & cond. for logs; TOOH; RU Schlumberger; run DLL.
23-Jul-89	47	13300	0	Finish DLL; run FDC/CNL; TIH to circ. & cond. mud; break circ. @ 6000', 8000', & 10,000'; TIH.
24-Jul-89	48	13300	0	Circ. & cond. mud for logs; TOOH; hole swabbing; TIH; circ. & cond. TOOH; run Digital Sonic w/waveforms.
25-Jul-89	49	13300	0	Finish sonic log; TIH to circ. & cond. for logs; break circ. @ 6000', 8000', & 10,000'; circ. & cond.; TOOH; run FMS/Dipmeter; RI Schlumberger; TIH to circ. & cond mud to run 7" casing.

Geologist released 7-25-89. Mudloggers released 7-23-89.

BIT NO.	SIZE	MAKB	TYPB		SBRIAL NO.	DBPTH OUT			PT/HR		₩OB 1000#	RPM	PUNP PRESS		MUD WT.		t
1	12 1/4"		R 2	13-13-13		1,123			43.2	22.5	50	60	1900	80	10.3		
9	12 1/4"		ATJ11H	13-13-13		3,525				145.5	55	60	2400	80	11.0		
4	8 3/4"		ATJ22	10-10-11		6,531				231.5	50/65	60/70	1900	100	8.3		
1	8 3/4"	-	ATJ22C	10-10-10		7,466				267.5		55/60	1900	100	water		
5			ATJ33	10-10-11		8,780				322	-	55	1900		water		
6			ATJ44	10-10-11		9.427				349.5	55	55	1800	110	water		
7	8 3/4"		ATJ55R	10-10-11		10,597	1170		22.9	400.5	50	50	1800	110	water		
8	8 3/4"		ATJ44	10-10-11		11,288		69.5	9.9	470.	55	55	1800	110	9.1	31	
9	8 3/4"		ATJ44	10-10-10		11,677	389	47	8.3	519	55	50/55	2100	103	12.0	43	
10	8 3/4"		ATJ33	13-13-B		12,235	558	71.5	7.8	588.5	50	50	2000	100	12.0	40	
11	8 3/4"		ATJ22	13-13-B		12,600	365	45	8.1	633.5	50	50	2100	100	12.5	41	
12	8 3/4"		ATJ33	11-11-10		13,277	677	95.5	7.1	729	45/50	50	2275	100	13.6	41	
13	8 3/4"		ATJ22	14-14-B		13,300	23	3.5	6.6	732.5	50	98	1820	100	13.5	43	

		MUD		WATER					OIL/			_	DAILY	CUMULATIVE
DATE	DBPTH	WRIGHT						SOLIDS		рH	Cl	Ca	COST	C08T
********								******						**********
06-Jun-89	121	8.4	39	16.0	9	4	1/8	tr	0/99.0	11.0				\$132
07-Jun-89	844	9.3	33	24.0	3	2	-	tr	0/96.0	10.0		120		\$5,902
08-Jun-89	1,264	10.3	38	16.0		7	2/	8	0/92.0	Α Λ	450	120	\$3,890	\$9,792
09-Jun-89	2,083	10.2	38	17.0	10	8	5/16	. 8	0/92.0	9.0		100	\$3,495	\$13,287
10-Jun-89	2,370	10.7	39	19.0	10	11	7/31	9	0/91.0	9.0	•	140	\$7,100	\$20,387
11-Jun-89	2,822	10.7	39	21.0	7	14	15/26	9	0/91.0	9.0		480	\$3,350	\$23,737
12-Jun-89	3,145	10.7	39	17.0	9	7	7/19	9	0/91.0	10.0	-	120	\$630	\$24,367
13-Jun-89	3,366	10.7	37	16.0	9	7	2/21	9	0/91.0	10.5	•	60	\$200	\$24,567
14-Jun-89	3,525	10.8	45	17.0	10	11	6/51	10	0/90.0	9.0	1,850	240	\$2,816	\$27,383
15-Jun-89	3,525	11.0	42	14.0	11	7	2/26	10	0/90.0	10.5	1,900	60	\$1,958	\$29,341
16-Jun-89	3,525	No Repo	26	N/C	+.					9.5	1,500	260	\$0	\$29,341
17-Jun-89		8.3	26	N/C	wate				0/100	12.0	1,400	560	\$0	\$29,341
18-Jun-89 19-Jun-89	4,103 4,797	8.3	26 26	N/C	wate				0/100	12.0	1,500	600	\$462	\$29,803
20-Jun-89	5,504	8.3	26	N/C					0/100	12.0	-	480	\$159	\$29,962
20-Jun-89	6,210	8.4	26	N/C	wate				0/100	11.5	6,800	600	\$694	\$30,656
21-Jun-89	6,801	8.4	26	N/C					0/99.0	12.0	6,800	680	\$1,122	\$31,778
22-Jun-89	7,387	8.4	26	N/C	wate				0/99.0	12.0	6,900	600	\$317	\$32,095
24-Jun-89	7,918	8.4	26	N/C	wate				0/99.0	11.5	6,800	520	\$18	\$32,113
25-Jun-89	8,417	8.4	26	N/C	wate				0/99.0	11.5	7,100	440	\$194	\$32,307
25-Jun-89	8,621	8.4	26	N/C	wate				tr/99.0	10.5	7,900	160	\$36	\$32,343
20-Jun-89	8,987	8.4	26	N/C	wate				tr/99.0	10.5	9,100	60	\$171	\$32,514
28-Jun-89	9,427	8.4	26	N/C	wate				tr/99.0		10,100	80	\$279	\$32,793
29-Jun-89	9,906	8.4	26	N/C	wate				tr/99.0		10,100	120	\$72	\$32,865
30-Jun-89	10,455	8.5	26	N/C	wate				0/99.0		11,100	40	\$1,650	\$34,515
01-Jul-89	10,732	8.8	30	N/C	3	2	0/2	3	tr/97.0		10,500	tr	\$1,251	\$35,766
02-Jul-89	10,941	9.1	32	N/C	4	2	2/5	3	tr/96.0		10,200	tr	\$0	\$35,766
02-Jul-89	11,170	9.1	31	N/C	3	4	4/8	3	tr/96.0		9,900	tr	\$805	\$36,571
04-Jul-89	11,288	9.0	31	N/C	3	4	2/6	3	tr/96.0		10,200	tr	\$272	\$36,843
05-Jul-89	11,559	9.3	33	36	4	5	6/11	5	tr/95.0	11.0	9,000	tr	\$269	\$37,112
06-Jul-89	11,636	10.4	40	19	7	11	11/42	10	22/68.0	10.5	8,600	tr	\$132	\$30,227
07-Jul-89	11,636	12.0	48	19	12	9	3/19	12	3/85.0	10.5	7,000		\$18,419	\$48,646
08-Jul-89	11,677	12.0	43	17	15	9	2/19	11	3/84.0	10.0	7,700		\$17,957	\$66,603
09-Jul-89	11,750	12.0	45	17	15	12	6/41	15	2/83.0	10.0	8,200	40	\$6,000	\$72,603
10-Jul-89	•	12.0	42	16	16	14	11/41	••	U / U U U	10.0	9,100	40	\$239	\$72,842
	12,116	12.1	40	16	16	14	11/46	16	2/84.0	10.5	7,800	40	\$6,283	\$79,125
	12,239	12.1	36	16	16	5	2/14		2,000	10.0	6,800		\$10,516	\$89,641
	-	12.5	38	11.0	17	9	4/11	19	2/79.0	10.0	6,800	80	\$6,163	\$95,804
14-Jul-89	12,556	12.5	40	11.0	17	12	7/22	19	2/79.0	10.0	7,600	80	\$3,890	\$99,694
15-Jul-89	12,672	12.5	41	12.0	19	8	7/18	18	2/80.0	10.0	7,800	80	\$3,585	\$103,279
16-Jul-89	12,844	12.5	39	11.0	16	11	7/24	18	2/80.0	10.0	6,800	80	\$1,936	\$105,215
17-Jul-89	12,903	13.5	40	12.0	22	5	3/15	20	tr/80.0	10.0	4,600	120	\$9,990	\$111,205
18-Jul-89	13,003	13.5	41	12.0	22	6	5/18	20	1/79.0	10.0	6,700		\$32,292	\$143,497
19-Jul-89	13,171	13.6	38	11.0	19	7	5/22	24	2/74.0	10.0	7,400		\$11,849	\$155,346
20-Jul-89	13,277	13.6	41	10.0	25	6	3/22	2.4	2/74.0	10.0	5,900		\$6,280	\$161,626
21-Jul-89	13,300	13.1	47	17.0	17	9	11/43	23	2/75.0		11,900	120	\$7,911	\$169,537
22-Jul-89	13,300	13.6	42	13.0	20	13	9/13	22	2/76.0		11,600	120	\$7,842	\$177,379
23-Jul-89	13,300	13.5	40	14.0	21	8	4/37	19	2/79.0		13,100	180	\$4,208	\$181,587
24-Jul-89	13,300	13.5	39	12.0	19	8	3/19	19	2/79.0		12,800	160	\$966	\$182,553
	13,300	13.5	38	10.0	17	5	6/14	20				120		\$183,812

August 1, 1989

TO: Gary Kornegay

10th Floor Pennzoil Place

P.O. Box 2967

Houston, TX 77252-2967

FROM: Margie Pierce

Edward Engineering 888 South Lipan Denver, CO 80223

RE: N

Mark 2-25A2

Section 25, T1S, R2W Duchesne County, Utah

The intervals recommended for perforation in the Wasatch formation from a depth of 10,860 feet to total depth 13,300 feet in the Mark 2-25A2, located in the NW/4 of the NE/4 of section 25, T1S, R2W, Duchesne County, Utah, have been plotted on the log panels which are being transmitted to the Houston office together with this memo via express mail. I have also included my invoices for the month of July. The perforation intervals correspond to the Gamma Ray on the Dual Laterolog Micro-SFL logged by Schlumberger on 7-22-89.

The perforation schedule for the Mark 2-25A2 has been subdivided into five parts according to formation and the facies within the Wasatch and Green River formations. Stage I and Stage II are the Wasatch intervals and Stages III, IV, and V are the Green River intervals. Stage I (11,860'-13,300') is the lower Wasatch lacustrine facies and this entire interval is abnormally pressured with a total of 569 feet of net pay. Stage II (10,860'-11,860') is the 1st Red Wedge of the Wasatch formation. This interval is normally pressured from 10,860 feet to a depth of 11,594 feet and abnormally pressured for the remainder of the interval to a depth of 11,860 feet. Show #13 (11,594'-11,636') was the first occurrence of abnormal pressure at which point the mud weight was increased from 9.3#/gal. to 12.0#/gal. Stage II , the Wasatch Red Wedge, has 443 feet of net pay. The log panels for Stages I and II are included with this memo along with a listing of the recommended perforation intervals for those zones. The log panels for Stages III, IV, and V of the Green River formation will be sent at a later date with the final geological report for the Mark 2-25A2.

STAGE I:

Wasatch

Lacustrine, overpressured

DEPTH			NET	FEET
11,990	-	8		- 8
11,920	-	44		24
11,954	-	64		10
12,006	-	20		14
12,040	-	54		14
12,088	-	92		4
12,116	-	38		22
12,150	÷	56		6
12,166	-	70		4
12,182	-	88		6
12,196	-	242		46
12,360	-	424		64
12,462	-	72		10
12,496	-	512	•	18
12,520	-	27		7
12,534	-	44		10
12,548	-	52		4
12,560	-	65		5
,_,	-	86		8
12,602	_	12		10
12,630	_	38		8
7	-	51		7
12,668 12,700	_	80		12
	_	4		4
12,727	_	23 30		10
12,746	_	51		3 5
	_	65		9
12,778	_	86		8
		800		6
•	_	26		20
,	_	68		12
	_	906		14
	_	44		24
	-	64		10
12,990 -	-	6		16
13,036 -	_	58		22
13.085 -	-	90		5
13,099 -	- - -	112		13
13,120 -	-	28		8
13,142 -	-	5 0		8
13,162 -	-	76		14
		225		27
13,234 -	-	44		10

Gross Interval 11,860 - 13,300

Net Feet Total	569
Average Interval ft	12.9
Minimum Thickness ft	3
Maximum Thickness ft	64

STAGE II:
Wasatch

1st Red Wedge, normal & overpressured

	DEPTH			NET	FEET
•	10,870	_	78		8
	10,906				32
	10,964				6
	10,974				8
	10,996		6		10
	11,012		15		3
	11,032		42		10
	11,062		67		5
	11,104		264		160
	11,284	_	90		6
	11,304	-	18		14
	11,356	-			36
	11,416	-			6
	11,429	-	33		4
·	11,466				4
	11,480				36
	11,524		42		18
	11,548				6
	11,560				4
•	11,594				42
	11,656		70		14
	11,704		7		3
	11,840	-	48		8
Gross Interval	10,860 - 11,860				
	Net Feet Total				443
	Average Interval i	?t			19.3
	Minimum Thickness		;		3
	Maximum Thickness				160

August 15, 1989

TO: Gary Kornegay

10th Floor Pennzoil Place

P.O. Box 2967

Houston, TX 77252-2967

FROM: Margie Pierce

888 South Lipan
Denver, CO 80223

RE: Mark 2-25A2

Section 25, T1S, R2W Duchesne County, Utah

This memo follows the memo dated August 1, 1989 regarding the recommended perforations for Stages I and II in the Mark 2-25A2, located in the NW/4 of the NE/4 of section 25, T1S, R2W, Duchesne County, Utah. After Stages I and II have been perforated and the productive zones are depleted, Stages III, IV, and V which remain behind pipe should be tested. Stages III, IV, and V, are all normally pressured. Stage III is the lacustrine facies of the Green River formation which includes the "H" and "HI" intervals with 509 feet of potential pay; Stage IV is the Upper Green River interval below the Trona I with 390 feet of potential pay; and Stage V is the Upper Green River littoral facies above the Trona I with 168 feet of potential pay.

The intervals listed on the following pages are recommended for perforation in the Green River formation above 10,860 feet in the Mark 2-25A2. The perforation intervals correspond to the Gamma Ray on the Dual Laterolog logged by Schlumberger on 7-22-89 and have been plotted on the log panels which accompany this memo. The perforations were selected on the basis of electric log shows (GR<60 API & Rt>30 ohms) and mud log shows.

Sincerely,

Marjorie A. Pierce

STAGE III:

GREEN RIVER

Lacustrine, normal pressured (includes "H" & "HI")

DEPTH			NET	FEET
9,424	,-	- 88		64
9,500	_	4		4
9,532	_	42		10
9,562		76		14
9,626	-	88		62
9,698	_	708		10
9,734	_	70		36
9,850	-	66		16
9,874	-	86		12
10,090	-	110		20
10,118	-	24		. 6
10,134	-	40		6
10,176	_	80		4
10,186	-	90		4
10,204	_	22		18
10,254	-	323		69
10,328	-	36		8
10,374		80		6
10,388	-	400		12
10,492	-	508		16
10,526	-	30		4
10,542	-	74		32
10,594	-	604		10
10,610	-	14		4
10,630	-	38		8
10,650	-	70		20
10,682	-	96		14
10,742	-	50		8
10,838	-	44		6
10,848	-	54		6

Gross Interval 9,406 - 10,860

Net Feet Total	509
Average Interval ft	17.0
Minimum Thickness ft	4
Maximum Thickness ft	69

STAGE IV

Upper Green River
Below Trona I, normal pressured

DEPTH			NET	FEET
7,490	-	514	,	24
7,826	_	80		54
8,058	_	106		48
8,174	_	232		58
8,250	_	92		42
8,326	-	70		44
8,888	_	928		40
9.284	_	364		80

Gross Interval 7,440 - 9,406

Net Feet Total	390
Average Interval ft	48.8
Minimum Thickness ft	24
Maximum Thickness ft	80

STAGE V

Upper Green River Littoral, normal pressured

DEPTH			NET	FEET
6,178	_	200		22
6,222	_	44		22
6,260	_	74		14
6,304	-	30		26
6,414	_	24		10
6,768	-	76		8
6,798	_	812		14
7.368	_	420		52

Gross Interval 6,092 - 7,440

Net Feet	t Total	168
Average	Interval ft	21.0
Minimum	Thickness ft	. 8
Maximum	Thickness ft	52

EORM 25 - 769 (1)

NOTIFICATION AND INFORMATION REQUIREMENTS

FORM 25-769(1) NOTIFICATION	MN	ואוט	רטהו	VIAII		UF CO.	UIIIL	161 -1	,				
Pennzoil Company 2-25A2 Mark 25-T1S-R2W Duchesne Co., Utah LEFFERS Pennzoil Company P.O. Box 2967 fouston, TX 77252-2967 T7002	AFE & Well Prognosis	State Permits, Reports, Survey, etc.	Daily Drilling Reports - Phone	Daily Drilling Reports - Mail	Electric Logs - Field Prints	Electric Logs - Final Prints	Electric Logs - Film Prints	Electric Logs - Tape LIS Formal	Log Telecopies as needed	Notice prior to & results of DTS's, Cores, Logging, Plugging, etc.	Reports - DST, Geological, Completion, Fluid Analysis, etc.	Daily Mud Log & Final Mud Log	Cutting of samples
Pennzoil Company P.O. Box 2967 - 10th Floor Houston, TX 77252-2967 Attn: Gary L. Kornegay Office: (713) 546-8935	1	2	1	1	2	2	1	1	1	1	2	1&2	1
Pennzoil Company P.O. Box 290 Neola, UT 84053 Attn: Will Luna	2	1	0	0	1	0	0	O	O	1	1	0&1	0
Proven Properties, Inc. 700 Milam, 8th Floor Houston, TX 77002 Attn: Rick Carter	1	1	0	1	1	2	O	1	1	2	2	1&2	0
Jtah Oil, Gas & Mining 355 West North Temple Suite 350 Salt Lake City, UT 84180	0	0	0	러 Mail Weekly	0	1	0	0	1	0	1	r Final	O
G. W. Petrolcum llll Bagby St. Suite 1700 -Houston, TX 77002	1	1	1	1.	1	2	0,	.0.	1.	1	2	182	0
Totals	5	5	2	6	5	7	1	2	ή	5	7	3&8	1

	Confidential
OCCN FORM 5	Form approved. Budget Bureau No. 1004-01
state utah SUBMIT IN TRADICATE DEPARTMENT OF NAT. RESOURCES (Other lostructions on re	Expires August 31, 1985 5. LEASE DESIGNATION AND SERIAL N
DIVISION OF OIL. GAS AND MINING	Fee Land
SUNDRY NOTICES AND REPORTS ON WELLS	G. IF INDIAN, ALLOTTEE OR TRIBE NA
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
1. OIL GAR [7. UNIT AGREEMENT NAME
WELL X WELL OTHER 2. NAME OF OPERATOR	8. FARM OR LEASE NAME
PENNZOIL Exploration & Production Company SEP 22 1989	Mark
P.O. Box 290 Neola, Utah 84053	2-25A2
1. LOCATION OF WELL (Report location clearly and in accordance with any state reduje mentality see also space 17 below.)	10. FIELD AND POOL, OR WILDCAT
At surface	Bluebell Wasatch
670'FNL & 1798' FEL	NWNE
14. PERMIT NO. 15. ELEVATIONS (Show whether Dr. AT. OR, etc.)	Sec. 25, T1S, R2W
43-013-31232 (GL) 5485.90 Graded(KNB) 5513.15	Duchesne Utah
16. Check Appropriate Box To Indicate Nature of Notice, Report, or C	Other Data
• • • • • • • • • • • • • • • • • • • •	UBNT REPORT OF:
TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF	RETAIRING WELL
FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	ALTERING CABING
BILOUT OR ACIDIZE ABANDON* REPAIR WELL CHANGE PLANS (Other) Monthly Ope	erations Report
NOTE: Report results	s of multiple completion on Well election iterate and Log form.)
17. DESCRIBE PROPOSED ON COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, proposed work. If well is directionally drilled, give subsurface locations and measured and true vertice nent to this work.)*	, including estimated date of starting a al depths for all markers and zones per
-Spudded w/Forwest, Inc. Rig #6 @ 4:30 A.M. on 6/7/89 -Drilled 12 1/4" hole to 3525' encountering water flows @ 689', 844 2287': contained the water flows w/ fresh water mud -Ran 83 jts (3531.75') 9 5/8" x 40#, S-95, LT&C csg in 11.0#44 vi cement to surface w/out fall back, using 1950 sks of cementN/U & test BOP stack to 5000 psi , 9 5/8" csg to 4025 psi, csg sea formation to 1100 psi for an EMW of 14.3# -Pressure test wellbore @ 4026' for 12.6# EMW & leak off. Pressure 4797' for 12.7# EMW & leak offDrilled an 8 3/4" wellbore to 13300' with normal problems. Mud @ T vis, 17 WL -Logged well w/DLL-GR, CNL-FDS, BHC-Sonic & Wave form, 4-arm calipe -Ran 7", 23#, 26#, & 29#, S-95, LT&C/Butt csg. After washing to btm csg 13,298' -With 890 sks, cemented from 13,298' to D.V. tool @ 10463'. Was una above the DV tool out of the wellboreReleased Rig @ 3:00 P.M. on 8/1/89 & MORT -MI & RU Smith's Well Service unit. P/U 2 7/8" tbg & etc. Open D.V. could not circ to surface. Closed D.V. tool. Drill out D.V. @ 10,46 float collar & cmt to 13,287', circ 10# brine around -Ran CET & CBL logs from 13,287' to surface -Perforated 41/2" holes @ 10,460', @ 9100', @ 8420', & 6575' -Circ 371 sks Cl "G" cmt between perfs 10,460' & 9100'	is mud. Circulated at & 15' of test wellbore @ F.D13.5#, 43 er, FMS dipmeter m, set & cemented able to circ cmt tool @ 7578', 63' & drill out
-Circ 367 sks 50/50 poz & 175 sks C1 "G" between perfs 8420' & 6575 -Drill out & test all perfs to 2000 psi. Had to squeeze perfs @ 6575 "G" & squeeze perfs @ 9100' w/200 sks C1 "G". After drill out perfs held 2000 psi test w/out leak-off -Ran bit & pushed remains of retainers to bottom & circ clean 10# 16 -Released rig to production department for completion work	75' w/200 sks Cl s & 6575' & 9100'
FINAL DRILLING REPORT	DON RJF
	J53 GLH
	DTS SLS
	1-TAS
3. I hereby certify that the foregoing is true and correct	
SIGNED Will TOTAL FORESTIER Drilling Superintendent	AICOOFII M
(This space for Federal or State office use)	FILE
APPROVED BY TITLE CONDITIONS OF APPROVAL, IF ANX:	IATE
CONTRACTOR OF MARKOT MAN AND AND AND AND AND AND AND AND AND A	

PENNZOIL EXPLORATION AND PRODUCTION COMPANY

P. O. BOX 290 • NEOLA, UTAH 84053 • (801) 353 - 4397

September 21, 1989

SEP 22 1989

Divisible of Oil, gas a mining

CONFIDENTIAL

State of Utah, Dept. of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, UT. 84180-1203

Re: Monthly Operations Report for Drilling Mark No. 2-25A2 NWNE Section 25, T1S, R2W Duchesne County, Utah API 43-013-31235

Gentlemen:

Enclosed, please find the original and three (3) copies of your DOGM Form 5 "SUNDRY NOTICES & REPORTS ON WELLS" for captioned operations.

Should there be any questions, please contact the undersigned at (801) 353-4397.

Sincerely,

Pennzoil Exploration & Production Company

William Z. Luna

Wilburn L. Luna

Drilling Superintendent

Enclosure

WLL/jm

STATE OF JIAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING

Confidential

12/23/89 OW. TUBING PRESS. 1100	24		18/64 CALCULATED 24-HOUR RATE	TEST		567	GAS—MC 800	1	TER—BBL.	oducing GAS-OIL S 1411 GRAVITY-API	
12/23/89		f1c	owing	lowing, g	as lift, pu	mping—size an	id type of pum	p)	ahut-in		ing or
3.•			The Control of the Co	o, Mari	PROD	UCTION					
											ROFILM
see attach	ed			٠		DEPTH INTE	RVAL (MD)	AMOUNT	AND KIND	F MATERIAL	USED
		vuo, 9%3° (nu n um ()er)			82.	ACID, SHOT,	FRACTURE	. CEMENT S	QUEEZE, E	rc
1. PERFORATION R	CORD (Inter	nal :					$\frac{2.87}{}$	5	13450	1-TAG	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	TOP (MI	77 36	TTOM (MD)	SACKS C	EMENT.	SCREEN (MD			H SET (MD)	DESKER	BEZ (MDEL
BIZE	Top (VER RECORD				30.	TUB	ING RECOR	JRB	T GL
<u> </u>				V/					· · · · · · · · · · · · · · · · · · ·	DRN	8
			-32,70		- 0.	13	890	sxs		{- 	AND GAS
7.000		26,29#	13298		- - <u>Q</u>	75''	1950				ANTICAT
9.625	40;		3522	vi (MD)	- HO	LE SIZE		MENTING REC	ORD	AMOU	NT PULLED
CASING SIZE	WEIGH	IT, LB./FT.	CAS DEPTH SE	ING REC		port all strings					
DLL, CNLD	, Sonic	, GR	mi	4	3-CB1	- cy	Coliner	asw		•	no
Wasatch 1	AND OTHER	LOGS RUE		····					1 2	27. WAS WEL	L CORED
24. PRODUCING IN	TERVAL(S). (P THIS CO	MPLETION-TO	P. BOTTON	I, NAME (MD AND TVD)		<u>→ </u>	XX		DIRECTIONAL T MADE
13300		132	7.5	İ	HOW ;	MANTO	DR	ILLED BY	ROTARY TOOL	S CAE	LE TOOLS
20. TOTAL DEPTH, 1	ID 4 TVD		BACK T.D., MD &	/23/8		LTIPLE COMPL.	KB 5513			GL 5485	
6/7/89	10. 541	1/89	1		. (Ready	to prod.) 18	. ELEVATIONS			19. ELEV. C.	
15. DATE SPUDDED	18 0:0	S T.D. REA		43-	013-31	232	6/6/89		Duchesn		ah
At total dept	**			14.	PERMIT NO	D	DATE ISSUED		ec 25,	T1S, R2V	STATE
At top prod.	interval rep	orted belo	₩						OR AREA		
4. LOCATION OF At surface				i accorda:	nce with a	ing State Pegu	MINIM'S CAT	IG -	Bluebel		K AND SURVE
P.O. Box	2967, H	louston	, TX 772	252		D:	IVISION OF	 -	2-25A2 10. FIELD AN	D POOL, OR V	VILDCAT
J. ADDRESS OF	PERATOR				Compan	JA	iN 08 199	0	9. WELL NO.		
Pennzoil		ation a	nd Produc	ction	Compos			SIII	Mark		
WELL X	OVER	EN	PLEG BACK		ESVR.		DEU V		S. FARM OR	LEASE NAME	
P TABE OF C		N: Deep				Min	ने जिल्ला	30000	f. UNIT AGE	EEMENT NAM	2 .
		WELL	TELL WELL		DRT	0.6		1-	7 // ***** ****	EEMENT NAM	

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal and/or State laws and regulations. Any special instructions concerning the use of this form and the number of copies to be submitted, particularly which regard to local, area, or regional procedures and practices above below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently smallable loge (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached be retent required by applicable Federal and/or State laws and regulations. All attachments

should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State Hers 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Indicate which elevation is used as reference (where not otherwal are indicate which elevation is completed for separate production from more than the interval and its sompleted for separate production from more than the interval and its sompleted for same (s) (if any) for only the interval are separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Hers 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hers 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.) or Federal office for specific instructions.

37. BUMMARY OF PORC SHOW ALL IMPORT DEPTH INTERVAL	US ZONES: CANT ZONES OF POS TESTED, CUSSION (NOBITY AND CONTENT UBED, TIME TOOL OF	87. BUMMARY OF POROUS ZONES: BHOW ALL MPORTARY ZONES OF POROSIXY AND CONTENTS TREEBOF; CORED INTERVALS; AND ALL DRILL-STBM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, PLOWING AND BEUT-IN PRESSURE, AND RECOVERIES	88. GBOLOG	GROLOGIC MARKERS	
FORMATION	101	NOTTO N	DESCRIPTION, CONTENTS, STC.	ENVE	101	
					MEAS. DETT	TEUS VAST. DALTE
*				TR1	7442	
				Mb	8175	
				Tgr3	2076	
				CP70	10245	
				TFL	13230	
	`					بقسيد.
-						

MARK 2-25A2 DRILLING REPORT

<u>DEV - Mark #2-25A2 - Utah - Duchesne - Bluebell/Altamont - Pennzoil - PZL W.I. 49.85393% - PD 13.500' - Sec. 25, T1S, R2W - AFE #07096105 - AFE Cost \$1.855,000</u>

05/22/89: G.L. (graded) 5485-90'

KDB @ 5513.15'

Rig Phone (801) 353-4498 Mud Loggers' (801) 353-4497 Building road & location.

05/23/89: 86' below GL digging conductor hole & working on location &

road.

05/24/89: @ 123' below GL w/16" conduct pipe in hole preparing to pump

cmt. Still working on location & road.

05/25/89: @ 123' below GL w/16" conductor pipe cmt'd in place. Still

working on location & road.

05/26-29/89: @ 123' below GL w/16" conductor pipe set & cmt'd. Finished

location & road Will start MIRT 05/30/89.

05/30/89: Will start MIRT 05/30/89.

05/30/89: 124' below GL w/16" conductor set & cmt. Started MIRT.

05/31/89: 124' below GL w/16" conductor set & cmt. Cont MIRT &

started RURT.

06/01/89: 124' below GL w/16" conductor set & cmt. Cont w/MI & RURT.

06/02-04/89: Finish MIRT & cont RURT.

06/05/89: @ 124' below GL w/16" conductor pipe set & cmt'd. Cont

w/RURT.

06/06/89: CTD \$54,802

This well is permitted 670' FNL & 1798' FEL

API 43-013-31232

160', drilling, made 9' in 1.5 hrs, f wtr.

Spud @ 0430 A.M. 06/07/89.

06/07/89: PD 965', drilling, made 805' in 16-1/2 hours, 10.2# mud w/40

vis & 24 WL (hit water flow #1 @ 689' & killed same w/10# mud, water flow #2 @ 844-75' & kill it w/10.2# mud). CTD

\$80,903.

06/08/89: CTD \$108,347

1525', drilling, made 560' in 18 hrs, 10.3#-38 vis-16 wl,

1/2° @ 1062' & 3/4° @ 1123' (slight wtr flow on bit trips).

CTD \$127,068 06/09/89:

2270', drilling, made 745' in 23 hrs, 10.6# 38 vis, 17 wl,

1/2° @ 1627'.

CTD \$152,227 06/10/89:

2705', drilling, made 435' in 23-1/2 hrs, 10.7#, 39 vis, 21

w1, 3/4° @ 2503'.

CTD \$162,078 06/11/89:

3055', drilling, made 350' in 23 hrs, 10.7#, 39 vis, 21 wl

(small wtr flows @ 2127-39' & 2287' - they may be mudded off

now).

CTD \$534,203 06/12/89:

10,155', drilling, made 410' in 23 hrs, f wtr, 3/4° @ 9716',

BG @ 700-2160 units w/2' flare.

06/13/89: CTD \$180,212

3446', drilling, day 8, made 134' in 11.5 hrs, 10.9#, 41

vis, 16 wl, 1° @ 3282'.

06/14/89: CTD \$188,666

3525', running 9-5/8" surf csg, day 9, made 79' in 8 hrs, 11#, 44 vis, 14 wl, (drill to 3525', raise mud wt vis, make

wiper trip, circ & POOH, start running surf csg) 3/4° @

3447'

CTD \$286,590 06/15/89:

3520', day 10, NU BOP's, f wtr (finished in hole w/83 jts [3531.75'] 9-5/8", 40#, S-95, LT&C csg. Pump 1950 sxs cmt.

Cmt circ & did not fall back, WOC, made cut off, install csg

head, start BOP NU).

CTD \$287,485 06/16/89:

3525', day 11, testing BOP's, f wtr.

06/17/89: CTD \$298,413,

3934', drilling, day 12, made 409' in 11 hrs, f wtr, 0° @

3934' (finished BOP testing 5000 psi, csg to 4025 psi, csg

seat & form to 14.3 # EMW, start drilling)

06/18/89: CTD \$319,757

4700', drilling, day 13, made 766' in 19.5 hrs, f wtr, 1/2°

@ 4335' (ran fm test @ 4026' w/leak-off @ 12.6 EMW)

06/19/89: CTD \$338,106

5336', drilling, day 14, made 636' in 19 hrs, f wtr, 1/2° @

4719' & 1/4° @ 5121', BG none.

06/20/89: CTD \$364,477

6151', drilling, day 15, made 815' in 23 hrs, f wtr, 1/4° @

5509', BG none.

06/21/89: CTD \$381,442

6633', drilling, day 16, made 482' in 15.5 hrs, f wtr, 1/2°

@ 6221', 1/4° @ 6531', BG 85 units.

06/22/89: CTD \$401,690

7331', drilling, day 17, made 698' in 23 hrs, f wtr, BG 45

units.

06/23/89: CTD \$410,910

7595', drilling, day 18, made 264' in 14.5 hrs, f wtr, 1/2°

@ 7466', BG 110 units.

06/24/89: CTD \$428,812

8250', drilling, day 19, made 655' in 23.5 hrs, f wtr, BG

105 units.

06/25/89: CTD \$438,864

8580', drilling, day 20, made 330' in 15 hrs, f wtr, BG 240

units.

06/26/89: CTD \$447,180

8845', drilling, made 265' in 12 hours, fresh water. 1/2° @

8770', BG 560.

06/27/89: CTD \$463,465

9422', drilling, day 22, made 577' in 23.5 hrs, f wtr, BG

575 units.

06/28/89: CTD \$474,275

9754', drilling, day 23, made 332' in 14 hrs, f wtr, 3/4° @

9427', BG 700 units & no flare (spotted 9.2# mud in hole for

bit trip)

06/29/89: CTD \$490,958

10,347', drilling, day 24, made 593' in 23 hrs, f wtr, 3/4°

@ 10,176', BG 625 units.

06/30/89: CTD \$501,333

10,627', drilling, day 25, made 280' in 16 hrs, f wtr, 1.5°

@ 10,611', BG 575 units & no flare.

07/01/89: CTD \$511,028

10,888', drilling, day 26, made 261' in 24 hrs, mud up due to oil flow, 9.1# in/9.0# out, 30 vis, BG 1750 units & no

flare.

07/02/89: CTD \$518,099

11,103, drilling, day 27, made 215' in 24 hrs, 9.1# in/9.1#

out, 32 vis, BG 1650 units w/no flare.

07/03/89: CTD \$525,243

11,288', RTCB, day 28, made 185' in 20 hrs, 9.1# in/9.1#

out, 31 vis, NC on wl, 1° @ 11,288', BG 3200 units w/no

flare.

07/04/89: CTD \$531,660

11,455', drilling, day 29, made 167' in 20 hrs, 9.0# in/8.9#

out, 31 vis, NC on w1, BG 6100 units w/no flare.

07/05/89: CTD \$538,984

11,625', on choke circ 9.7# kill mud around, day 30, made

170' in 21 hrs, 9.7# in/9.3# out, 35 vis, 30 wl.

07/06/89: CTD \$546,021

11,633', mixing mud, day 31, made 8' in 0.5 hrs, 10.5#, 40 vis. 19 wl. Circ 10.2# mud around @ 11,625'. Well was

vis, 19 wl. Circ 10.2# mud around @ 11,625'. Well was almost dead. Resumed drilling & in 8' took a 53 bbl gain. Cont circ & mixing mud. Due to high temp oil vol is 35% & mud system is being switched out. Will raise mud weight to

12.0# or higher as required to contained the oil flow.

07/07/89: CTD \$571,095

11,648', drilling, day 32, made 15' in 2.5 hrs, 12.0# in/11.9# out, 48 vis, 17 wl, BG 3740 units w/no flare.

(Finished killing well w/12# mud d& resumed operations).

07/08/89: CTD \$603,418

11,680', drilling, day 33, made 32' in 5 hrs, 12# in/11.8#

out, 43 vis, 17 wl, 1° @ 11,636', BG 2400 units w/no flare. (made RTCB w/SLM & no correction in depth, checked DC & test

BOP's).

07/09/89: CTD \$616,673

11,876', drilling, day 34, made 196' in 24 hrs, 12.0#

in/11.5# out, 40 vis, 17 wl, BG 1800 units w/no flare.

1.53 @ 11,680' No gas flared in last 48 hrs

1.46 @ 11,876'

07/10/89: CTD \$636,528

12,062', drilling, day 35, made 186' in 23.5 hrs, 12.0#

in/11.3# out, 42 vis, 16 wl, BG 950 units w/no flare.

07/11/89: CTD \$654,627

12,237', drilling, day 36, made 175' in 23.5 hrs, 12.0# in/10.3# out, 40 vis, 16 wl, BG 5,500 units w/no flare.

(lost 218 bbls mud, total loss now @ 468 bbls.)

07/12/89: CTD \$676,169

12,357', drilling, 37 days, made 100' in 12 hours, 12.2# in/10.4# out, 38 vis, 16 wl, BG 6800 units w/no flare.

(Lost 198 bbls mud - Total loss @ 666 bbls).

07/13/89: CTD \$688,987

12,534', drilling, day 38, made 177' in 23 hours, lost 279 bbls while raising mud wt. from 12.2# to 12.5#. Total loss now 945 bbls, 12.5# in/12.1# out, 38 vis, 11 WL, BG 5000

units w/1' flare now and then.

07/14/89: CTD \$703,823

12,618', day 39, drilling, made 84' in 14 hours, 12.5# in/12.4# out, 39 vis, 11 wl, 3/4° @ 12,600', BG 6300 units &

sometimes w/a l' flare.

07/15/89: CTD \$714,223

12,778', day 40, drilling, made 160' in 24 hrs, 12.5# in/12.0# out, 50 vis, 12 wl, BG 4700 units & a flare once in

awhile.

07/16/89: CTD \$723,464

12,903, day 41, building 13.3# kill mud, made 125' in 17 hrs & raised mud wt to 12.6#. Well killed @ 12,903' & circ 12.8# mud around. Now raising wt to 13.3#, 12.8# in/9.0# out, 40 vis, 11 wl, BG up to 6300 units & sometimes w/a 1'

flare.

07/17/89: CTD \$736,109

12,909', day 42, drilling, made 6' in 1/2 hour, killed well w/13.5# mud, 13.5# in/13.2# out, 40 vis, 12 wl, BG 3500

units w/3-6' flare.

07/18/89: CTD \$775,818

13,097', day 43, drilling, made 188' in 23.5 hrs, MW 13.5#

in/13.3# out, 41 vis, 12 wl, BG 3000 units w/no flare.

07/19/89: CTD \$794,839

13,255', day 44, drilling, made 158' in 23.5 hrs & lost 62

bbls mud due to seepage, total loss @ 1192 bbls, 13.6#

in/13.2# out, 38 vis, 11 wl, BG 2300 units w/no flare.

07/20/89: CTD \$807,774

13,279', day 45, drilling, made 24' in 2.5 hrs, lost circ & make RTCB, lost 675 bbls mud for a total loss of 1867', made no correction on SLM from trip @ 13,277', 13.6# in/13.3# out, 41 vis, 10 wl, BG 1900 units.

07/21/89: CTD \$825,420

13,300', day 46, logging w/DLL, drilled 23' in 2.5 hrs & cond mud for logging. POOH & RU Schlumberger & start logging w/DLL. Loggers TD 13,304', 13.5# mud wt, 43 vis, 17 wl.

07/22/89: CTD \$839,917

13,300', day 47, TIH to cond mud for additional logging. Finished logging w/DLL & density log. Started TIH & broke circ @ 6000', 8000' & 10,000'. @ 6000' lost 70 bbls mud while breaking circ. 13.5# mud wt, 42/45 vis, 13 wl.

07/23/89: CTD \$850,920

13,300', day 48, logging w/sonic log. Finish cond mud for logging. POOH & RU Schlumberger. Start logging w/sonic log. 13.5 mud wt, 40 vis, 14 wl.

07/24/89: CTD \$859,011

13,300', day 49, logging w/dip meter, finished logging sonic log & ran caliper log, made clean out trip. RU Schlumberger & start running dip meter. 13.5# mud wt, 39 vis, 12 wl.

07/25/89: CTD \$910,959

13,300', day 50, laying down drill string (finished logging, TIH & cond mud, now laying down drill string to run 7" prod csg). 13.5# mud wt, 38 vis, 10 wl.

07/26/89: CTD \$922,355

13,300', day 51, running 7" prod csg. Finish LD drill string. RU & start running 7" csg. 13.5# mud wt, 40 vis, 11 wl.

07/27/89: CTD \$929,480

13,300', day 52, running 7" csg w/full returns (24 hrs running csg. Broke circ @ 4875' & 7812'. Circ mud around @ 5845'.) 13.5# mud wt, 38 visc, 10 wl.

07/28/89: CTD \$977,728

13,300', day 53, building mud volume (ran csg to 8585'. Circ mud around & on btm had heavy oil - yellow Wasatch oil from 10,620' +/-, cut mud & well was flowing. TIH to 12,497'. Put well on ck. Circ 14.5 hrs & build mud volume as the oil cut mud had to be displaced.) 13.5# mud wt, 45 vis, 12 wl.

07/29/89:

CTD \$1,013,560
13,300', day 54, circ @ 13,066' w/7" (finished circ @ 12,497'. TIH to 13,110' & started washing to btm displacing oil cut mud. Started losing mud. Well bore was bridging @ 13,154'. Well bore bridge & could not circ. Csg was partially stuck @ one time, then we worked out 17' of free movement w/no circ. Cont working csg.) 13.5# mud wt, 51 vis, 12 wl.

07/30/89:

CTD \$1,242,663
13,300', day 55, circ for 1st stage cmt w/some loss of returns. (cont to work csg. It started to free up, broke circ & worked 2 jts out of hole. Circ 13..5# mud around @ 13,066' w/full returns. Washed 6 jts to btm & circ w/more than 4.0 BPM will induce partial loss of returns. Ran 302 jts [13,321.66'] 7", 29/26/23#, LT&C/butt csg & lost about 1700 bbls in getting csg to btm.) 13.5# mud wt, 43 vis, 11 wl.

INTERMEDIATE CASING DETAILS

		f	rom bottom to top		
JTS	O.D.	WT.	GR. CONN.	LENGTH	TOP @
1	Howco	Guide Shoe	Guide Shoe	.75′	
2	7"	29#	S-95 LTC	84.69′	13,299′
1	Howco	Full Open	Float Collar	2.05′	13,214'
63	7"	29#	S-95 LTC	2,744.10′	10,468′
1	Howco		D.V. Tool	3.10'	10,465'
9	7"	29#	S-95 LTC	400.97′	10,064'
55	7"	26#	S-95 LTC	2,481.36'	7,582 <i>'</i>
1	Howco		D.V. Tool	3.10'	7,579 <i>′</i>
23	7"	26#	S-95 LTC	1,032.14'	6,548′
96	7"	23#	S-95 LTC	4,225.78'	2,322′
1	7"	23#	S-95 Butt/LTC	22.25'	2,300′
			Box Pin		
<u>53</u>	<u>7"</u>	<u>23#</u>	S-95 Buttress	2,321.37'	
302 jts				13,321.66'	

END OF CSG DETAIL

07/31/89:

CTD \$1,276,146
13,300', day 56, ND BOP stack to set 7" csg slips. (Finish cond mud for 1st stage cmt. Mix & pump 1st stage cmt. All surf indications are that the job was successful. Opened DV tool & started circ out. Had some fluid loss to fm & probably hole bridging. When flush ahead of cmt reached surf well-bore bridged & there was no further circ. Dropped bomb & closed btm DV tool [@ 10,465']. Now on ND of BOP stack to set csg slips & release rig.) 13.5# mud wt below 10,465' & unfiltered 10.0# brine wtr above 10,465'.

07/31/89 (cont.):

1st STAGE CMT DETAIL

Pump: 70 bbls 15# LCM mud @ 13.5#

10 bbls 13.5# mud 20 bbls fresh wtr

20 bbls 2% CaCl

20 bbls fresh wtr

20 bbls zone lock

10 bbls fresh wtr

60 bbls spacer 3000 @ 14#

20 bbls CW100 @ 8.4#

890 sxs Class"G" w/35% D66, 18% D44, .7 gal/sxs D604A, .05 gal/sxs M45, 0.2% D13, mixed @ 16.1#, yield @ 1.583 ft³/

Total slurry volume 251 bbls displaced w/509 bbls mud. Bumped plug @ 3:00 pm 07/31/89 w/1500 psi. Drop bomb, open DV tool @ 10,465 w/1500 psi.

NOTE: Bumped plug - well flowing up the annulus. Flowed back 124 bbls. SWI. Open DV tool & began to circ out on the ck, lost complete returns when flush reached (518 bbls, 13.5 mud pumped) the surf pumping into fm @ 3 BPM @ 295 psi. SD & wait on orders. Displace 7" csg w/10# brine. Close DV tool @ 10,465 w/4000 psi @ 6:00 am 08/01/89.

08/01/89: CTD \$1,311,357

13,300' TD, day 57, (PBTD @ 10,465' on btm DV tool & float collar top @ 13,211.01') Finished BOP. ND & set 7" slips w/330.000#, install tbg spool. Clean out mud pits & release rig @ 3:00 pm on 08/01/89. Start RDRT.

08/02/89:

CTD \$1,384,656

13,300' TD, day 58, (PBTD @ 10,465' on btm DV tool & float collar @ 13,211') Cont w/RDRT & start MORT.

CORRECTED INTERMEDIATE CASING DETAILS

		fro	om botton	n to top		
JTS	O.D.	WT.	GR.	CONN.	LENGTH	TOP @
			2' of o	pen hole		13,298′
1	Howco	Guide Shoe	Guide	-	.75′	13,297.75′
2	7"	29#	S-95	LTC	84.69′	13,213.06'
1	Howco	Full Open	Float	Collar	2.05′	13,211.01'
63	7"	29#	S-95	LTC	2,744.10′	10,466.91'
1	Howco		D.V.	Tool	3.10'	10,463.81′
9	7"	29#	S-95	LTC	400.97 ′	10,062.84′
55	7"	26#	S-95	LTC	2,481.36'	7,581.48′
1	Howco		D.V.	Tool	3.10'	7,578.38′
23	7"	26#	S-95	LTC	1,032.14'	6,546.24′
96	7"	23#	S-95	LTC	4,225.78′	2,320.46′
1	7"	23#	S-95	Butt/LTC	22.25'	2,298.21'
				Box Pin		
<u>53</u>	7"	23#	<u>s-95</u>	<u>Buttress</u>	2,321,37	top of slips
302 jts					13,321.66'	
<i>J</i>						

END OF CSG DETAIL

Landing jt above KB 23.16'

08/03/89 CTD \$1,384,656

13,300' TD, (PBTD @ 10,465') Finished w/RD & MORT. Cleaning up loc & building pad for completion unit.

08/04/89: CTD \$1,384,656

13,300' TD (PBTD 10,465'). Finished w/wellsite pad for completion unit.

08/05/89: CTD \$1,392,619

13,300' TD (PBTD 10,465'). MIRU completion unit. PU 6-1/8" bit, 7" csg scraper, 6 4-3/4" DC's & 132 jts 2-7/8" tbg.

08/06/89" CTD \$1,395,164

13,300' TD (PBTD 10,465'). @ 10,465' ready to drill out btm DV tool. Finish in hole to 7578' (top DV tool). Open DV tool, could not circ, closed DV tool. Drilled DV tool & TIH to btm DV tool @ 10,465' & SDFN.

08/07/89: CTD \$1,488,128

13,300' TD (PBTD 13,211'). Drilled DV tool @ 10,465' & TIH to 13,211', top of float collar. Rev out 13.5# mud & SDFN.

08/08/89: CTD \$1,497,532

At top of float collar test csg to 5000 psi w/10.0# brine in hole, OK. RU, drill float collar & solid cmt to 13,287' by tbg (13,275' by csg tally). Retest csg, OK. POOH. RU Schlumberger & run CET over selected zones & CBL from 13.285' by WL to surf. SWI & WOD. 10# brine.

08/09/89: CTD \$1,497,532

Finish running CBL-CET logs. Top cmt f/lst stage cmt @ 10,500'. Bridge appears to be @ 6400-6490'.

08/10/89: CTD \$1,517,493

RU OWP Wireline Co. RIH w/5.718 gauge ring to 10,400'. Perf circ hole @ 10,460' & 6575'. RIH & set Halliburton cmt retainer @ 10,400'. RD OWP Wireline Co. PU stinger & seat nipple. TIH w/300 jts 2-7/8" tbg to 9361'. SDFN.

08/11/89: CTD \$1,523,708

11 hr SICP 1000 psi. Finish TIH w/tbg. Sting into cmt retainer @ 10,400'. Attempt to circulate perfs @ 10,460-6575'. Pumped down tbg @ 1.4 BPM @ 1900#, no circ. 2nd attempt pumped down tbg @ 3.1 BPM @ 2800 psi, no circ. Pumped down 7" csg in perfs @ 6575-10,460' @ 3.4 BPM @ 2000#, no circ. TOOH w/stinger. RU Wireline Co & perf @ 8420'. TIH w/stinger. SDFN.

08/12/89: CTD \$1,527,352

11 hr SICP O psi. Finish TIH w/stinger. Sting into cmt retainer @ 10,400'. Attempt to circ thru perfs from 10,460-8420'. Pump down tbg @ 3.2 BPM @ 2500#, no circ. 2nd attempt pump down tbg @ 3.7 BPM @ 2950#, no circ. Attempt to circ from 8420-10,460'. Pump down 7" csg @ 5.6 BPM @ 2000#, no circ. TOOH w/stinger. TIH w/RTTS to 6976'. Attempt to circ perfs from 8420-6575', pumping down tbg @ 4.2 BPM @ 2500#, no circ. Pump down 7" csg thru perfs @ 6575-8420' @ 3.4 BPM @ 2000#, no circ. Release RTTS. TOOH to 6353'. SDFN.

08/13/89: Well shut in. Waiting on orders.

08/14/89: CTD \$1,527,352

Well shut in, evaluate logs.

08/17/89: CTD \$1,538,693

TOOH w/Haliburton pkr. RU wireling co & lub. RIH w/4" csg gun & perf 4 spf for 1' @ 9100'. POOH & RD wireline co. PU Haliburton stinger & TIH. Sting into retainer @ 10,400' & circ perfs from 10,460-9100' for 10 hrs @ 2.9 BPM @ 1100 psi.

08/18/89:

COMPLETION CTD \$1,544,295

Circ well @ 2.9 BPM @ 1100 psi.

CALCULATED HOLE VOLUME

Tbg f/surf-10,400 60.21 Bbls
26# csg f/10,400-10,460 2.29 bbls
Csg f/surf-9100' 277.36 bbls
Annular volume f/4000' 60.55 bbls
TOTAL 400.41 bbls

Mix dye w/25 bbls 10# brine. Displace & circ well. Dye returned @ 394 bbls displacement f/annular of 54 bbls. RU Dowell & pumped 72 bbls of 12# Pozzolan followed by 10 bbls of Dye @ 4 bbls pm @ 2000 psi @ 362 bbls. Pozzolan returned f/annular of 22 bbls @ 350 bbls. Dye returned f/annular of 10 bbls. RD Dowell. RU rig pump & pump dye @ 385 bbls. Dye returned f/annular of 45-1/2 bbls pumped @ 4.5 BPM @ 1900 psi. Cont circ hole @ 2 BPM @ 300 psi thru the night. Prep to cmt.

08/19/89:

CTD \$1,553,539 Circ 10# brine thru perfs @ 10,460-9100' @ 2 BPM @ 300 psi. RU Dowell & PU stinger to natural point & test tbg on cmt Clean up annular hole retainer to 5000 psi, OK. f/9100-10.460', pumping w/Dowell. Pumped 500 gals 7-1/2 HCl w/3 gal surfactant, 3 gal corrosion inhibitor, 5 bbls wtr, 50 bbls Pozzolan wt'd to 12.5#, followed displacement w/10# Pump @ max rate of 7.5 BPM @ 5050 psi w/max HHP of brine. When acid returned, it was partially spent & Pozzolan had very little solids. Calc hole volume by tagging acid, 395 bbls by measuring frac tanks, 380 bbls by counting displacement tanks, 385 bbls by rig pump the previous day. Avg of 3 = 386 bbls. Calc true hole volume = 400 bbls. For annular volume between perfs 9100-10,460' - 47 bbls. Sting out of cmt retainer to check if operational & fill around the stinger. (Had 6000 over normal string wt.) Unable to sting back into cmt retainer due to suspected damage from acid or fill. TOOH w/Halliburton stinger. PU HTC R-7 6-1/8" bit & TIH w/6 4-3/4" DC's & tbg to 10,150'. Prep to drl out cmt retainer & run new retainer.

08/20/89:

CTD \$1,555,739

11 hr SICP (9-5/8" csg) 50 psi, SITP (7-1/2" tbg) 150 psi. Finish TIH w/6-1/8" bit, 6 4-3/4" DC's & tbg to cmt retainer @ 10,400'. RU swivel & drlg equip. Reverse circ @ 3 BPM @ 500 psi. Drill up retainer in 2 hrs 25 min. TIH to 11,031'. Circ hole w/clean 10# brine. TOOH w/6-1/8" bit, DC. SDFN. Prep to run gauge ring to 10,500' & set cmt retainer @ 10,370' & cmt perfs f/10,460-9100' 08/21/89.

08/21/89:

CTD \$1,557,925
11-1/2 hr SITP 0 psi. RU Schlumberger & RIH w/5.730 gauge ring & junk bskt to 10,500'. (rec several pieces of rubber in junk bskt) RIH w/Haliburton cmt retainer & set @ 10,370'. RD Schlumberger. PU Haliburton stinger & TIH to cmt retainer. Sting in retainer @ neutral pt & test tbg & cmt retainer to 5000 psi, OK. Sting in & circ perfs f/10,460' to 9100' f/2 hrs. RU Dowell & cmt w/40 bbls spacer 3000' @ 10.5#, 20 bbls CW1000 @ 8.3#, 371 sxs Class "G" w/1.8% D44 .6 gal/sxs D604A, .05 gal/sxs M45, .1% D13. Batch mixed @ 16.1 ppg yield @ 1.21 cubic ft sxs. Total slurry volume = 80 bbls. Displace w/60 bbls 10# brine. Sting out retainer (9 stds net) & TOOH. SDFN.

08/22/89:

CTD \$1,578,465 SITP 0 psi. PU 6-1/8" bit, 7" csg scraper, 6 4-3/4" DC's & TIH w/tbg. Tag cmt @ 9044'. RU drilling equip. Drill cmt stringers to 9213'. Circ hole clean. TOOH w/bit & csg scraper. PU 7" RTTS & TIH to 8369'. SDFN. Drlg cmt stringers w/2000-4000# wt. Prep to test perfs @ 9100' 08/23/89.

08/23/89:

CTD \$1,586,627 11 hr SITP 400 psi, SICP 0 psi. TIH w/RTTS to 8523' & set RTTS. Pump into perfs @ 9100' @ 2000 psi. ISDP 1600 psi, 5 min 1050 psi. 2nd time pump in perfs @ 9100' @ 3 bpm @ 3250-3150' f/21 bbls. ISDP 2000 psi, 5 min 1800 psi, 10 min 1700 psi, 15 min 1650 psi. Bled off press, rec 10.5 bbls then cont to flow @ 1/2" stream. Rel RTTS & TOOH. Schlumberger & RIH w/cmt retainer & set @ 8980'. Schlumberger. PU stinger & TIH. Sting in retainer @ 8980' @ neutral pt. Test tbg & cmt retainer to 4000 psi, OK. RU Sting in retainer. Sqz perfs @ 9100' w/200 sxs Class "G" 18% D44 .6 gal/sxs D604A, .05 gal/sxs M45, .1% Batch mixed @ 16.1 ppg. Yield 1.21 cubic ft/sxs. Total slurry volume 45 bbls, tbg volume 60 bbls, 7" csg to perfs 4.6 bbls, total displacement 64.6 bbls. Pump cmt & 45 bbls displacement. Shut down w/1750 psi. Wait 20 min, press down to 1725 psi. Pump 6 bbls f/51 bbls displacement gone. Press inc to 2100 psi. Wait 15 min, press down to 2050 psi. Pump 1.5 bbls f/52.5 bbls displacement gone. Press inc to 2150 psi. Wait 15 min, press stayed @ 2150 Sting out of retainer. Rev out 75 bbls, rec 1/4 bbl lite cmt. TOOH 42 stds. SDFN.

08/24/89:

CTD \$1,606,552

Finished TOOH w/Halliburton stinger. RU Schlumberger & RIH w/cmt retainers & set @ 8300'. PU Halliburton stinger & TIH. Sting into retainer @ 8300' of neutral point & test tbg & retainer to 3000 psi, OK. Sting into retainer, began to est inj rate, but began to circ thru perfs @ 8420-6575' @ 4 BPM @ 1300 psi. ISDP 0 psi. Sting out of retainer. Spot 60 bbls 9# 65 vis pill f/6575-8300'. Sting into retainer. Began to circ perfs f/8420-6575'. Pump dye f/fluid caliper, but well began to plug & lost circ. Work f/2-1/2 hrs, unplug perfs. Est circ @ 3 BPM @ 900 psi. Cont circ & clean up perfs thru the night.

08/25/89:

CTD \$1,623,421
13,300' TD (13,285' PBTD). RU Dowell & pump 100 bbls
Pozzolan to clean up 7" csg annular f/8420' to 6575'
f/calculated annular hole volume of 63 bbls. Pump dye
f/calculated annular hole volume of 73 bbls. Pump cmt as
follows: 40 bbls spacer, 20 bbls chemical wash, 37 bbls
spacer, 367 sxs 50/50 Poz "G" cmt, 175 sxs class "G" cmt,
total cmt sllurry 116 bbls. Pumped @ 3 bpm & 900-1000 psi.
Displace w/48 bbls 10# brine, good circ. Sting out of cmt
retainer @ 8300' & TOOH w/stinger. SDFWE.

08/28/89:

CTD \$1,628,651

PU 6-1/8" bit & 7" csg scraper. TIH w/6 4-3/4" DC's & tbg. Tag cmt stringer @ 4918'. RU drlg equip, drlg cmt stringers f/4918-5727'. Drill semi-hard cmt f/5727-5976'. Circ well clean. SDFN. Prep to finish drlg cmt to 6775' & test perfs @ 6575'. Attempt to circ 9-5/8" & 7" csg thru perfs @ 6575 to surf.

08/28/89:

CTD \$1,631,734

LD 26 jts 2-7/8" tbg. RU drilling equip. Drill out 724' of hard cmt from 5976-6700' (had 8' void from 6581-6589', perfs @ 6575'). Circ hole clean, had some shale, LCM & drlg mud w/cmt while drilling. Test perfs @ 6575' to 2000 psi, DID NOT HOLD, 1750 psi in 5 min, 1650 psi in 10 min, 1425 psi in 15 mins. Bled off press & POOH 3 stds to 6575'. SDFN.

08/30/89:

CTD \$1,639,118 SITP 300 psi. Bled off press, TOOH to 6254'. Press up 7" csg, pump into perfs @ 1.8 BPM @ 1800 psi. Pump 15 bbls f/final @ 2 BPM @ 1550 psi. ISDP 1400 psi, 5 min 1100 psi, 10 min 1050 psi. Bled off press, flow back 4 bbls. Press up 9-5/8" csg to 1500 psi w/3/4 bbl. ISDP 1300 psi, 10 min 1200 psi, 15 min 1100 psi. Unable to pump into. Press up 7" csg to 200 psi, then press up 7-5/8" csg to 2000 psi f/1/2 bbl, 5 min 1800 psi, 10 min 1700 psi, 15 min 1650 psi. No communication w/9-5/8" csg on perfs @ 6575'. Bled off press f/9-5/8" csg & 7" csg. TOOH w/bit & csg scraper. PU Halliburton cmt retainer & setting tool & TIH to 6408' & set cmt retainer @ 6408'. Sting out of retainer to neutral pt. Tbg would not test. Sting out of retainer, test 7" csg to 3000 psi, OK. TOOH & look f/hole in pipe. Found hole in tbg @ 149 jts f/surf. Hole was caused by jetting action from previous cmt job @ 9100'. TIH w/stinger & sting into retainer @ 6408' @ neutral pt. Test tbg to 3000 psi, OK. Sting in, pump inj rate @ 1-1/4 BPM f/1850#, ISDP 1700 psi. RU Dowell & pump cmt 100 sxs Class "G" w/1/2% CaCl2, 100 sxs Class "G" w/.5% D65 (fluid loss). Mixed @ 15.8 yield @ 1.14 f/40.6 bbls tbg displacement 37 bbls & f/cmt retainer to perf @ 6575' 6.4 bbls for total of 43.4 bbls. Displace cmt w/35 bbls 10# brine @ 2 BPM @ 2450 psi, ISDP 2050 psi. Stage cmt f/2 hrs, wait 20 mins. Press drop to 1650 psi. Pump 1 bb1 f/37 bb1s gone to 1950#. Wait 30 min. Press drop to 1600 psi (held 5 min). Pump 1 bbl f/38 bbls gone to 1900#. Wait 30 mins. Press drop to 1625 psi (held 10 min). Pump 1/2 bb1 f/38-1/2 bb1s gone. Press inc to 1950 psi. Press bled down to 1800 psi & stayed @ 1800 psi f/15 min. Sting out of retainer & rev out 60 bbls. No cmt. Pull 3 stds. SDFN. Prep to TOOH w/stinger & PU bit & drlg out.

08/31/89:

CTD \$1,641,909
SITP O psi. TOOH w/cmt retainer Stinger. PU 6-1/8" bit, csg scraper, 6 4-3/4" DC's & TIH to cmt retainer @ 6408'.
RU drlg equip & drill cmt retainer. Had 16' void below retainer to 6424'. Cont drlg up cmt retainer & hard cmt to 6451'. Circ hole clean & SDFN. Cont drlg out cmt & retainers.

09/01/89:

CTD \$1,644,619

SITP 0 psi. Drill cmt from 6451-6588' (perf @ 6575'). Circ clean & test 7" csg 6700'. Press test to 2000 psi for 30 mins. No leaks. Drill cmt from 6700-6791'. Circ clean. SDFN.

09/02/89: CTD \$1,647,074

SITP 0 psi. Cont to reverse. Circ 3 bpm @ 400 psi 6-8000# on bit, 80 RPM. Cont drlg from 6791-7352' for 561'. Circ

clean & SDFN.

09/03/89: CTD \$1,649,129

SITP O psi. Cont to drlg cmt from 7352-7510'. Drlg stringers of cmt from 7510-7570'. TIH to cmt retainer @ 8300'. RU drgl equip. Test 7" csg to 2000 psi for 15 mins. No bleed off. Drlg on cmt retainer. Circ hole

clean. SDFN.

09/04/89: CTD \$1,652,317

SITP 0 psi. Cont drlg out cmt retainer & cmt from 8305-8431', fell thru perfs @ 8420'. TIH 8468', made 126', circ well clean. Press test perfs @ 8420' to 2000 psi for 30 mins, Ok. TOOH w/bit & csg scraper. Bit in fair to good cond. Csg scraper pads loose and springs behind pad were gone. PU new HTC 6-1/8" R-4 bit & TIH w/6 4-3/4" DC's & 156 jts 2-7/8" tbg. SDFN. Resume TIH & drill out cmt

retainers.

09/05/89: CTD \$1,655,208

SITP 0 psi. Finish TIH w/6-1/8" bit, DC & tbg. Tag cmt stringer @ 8490'. RU drlg equip & drlg thru stringer. Finish TIH to cmt retainer @ 8980'. Drlg cmt retainer & cmt from 8980-9148', then fell thru. Circ hole clean. Test 7" csg & perfs @ 9100' to 2000 psi for 30 min, OK. SDFN.

Resume drlg out cmt retainer @ 10,370 on 09/06/89.

09/06/89: CTD \$1,657,833

SITP 0 psi. TIH 2 jts, tag fill @ 9203'. RU drlg equip. Wash fill to 9213'. Drill hard cmt from 9213-9801' for 588' of cmt then fell thru. Circ hole clean from 9833'. TOOH 3 jts. SDFN. Will drill out cmt retainer @ 10,320' & cmt to

perfs @ 10,450' 09/07/89.

09/07/89: CTD \$1,660,522

SITP 0 psi. TIH from 9883' to cmt retainer @ 10,370'. RU drlg equip & drill out cmt retainer & 98' of hard cmt to 10,468', then fell thru. Circ hole clean. Press test perf @ 10,460' to 2000 psi for 30 mins, OK. TIH to 13,139', tag previous cmt retainer that was pushed to btm on 08/21/89. Circ hole clean. SDFN. Prep to clean hole out to 13,285'.

TOOH & log well.

09/08/89: CTD \$1,673,024

Cont drilling on cmt retainer @ 13,139'. Pushed same down to PBTD @ 13,285' f/CBL log @ 13,275' f/csg depth. Circ well clean of metal & rubber. RD drlg equip & TOOH w/6-1/8" bit. RU Schlumberger & run CBL/CET under 2000 psi from

10,600' to surf. RD Schlumberger & SDFWE.

09/11/89: CTD \$1,675,372

SITP 0 psi. Load out drill equip. TIH w/6 4-3/4" DC's. Pull out & LD same. Make up 6-1/8" drag tooth bit on 7" csg scraper. TIH w/426 jts 2-7/8" tbg to PBTD @ 13,285'. Rev circ 400 bbls, 5 BPM @ 1900 psi. Circ out small amount of cmt, metal & rubber. POOH w/bit & scraper. LD same. TIH

w/34 jts open ended tbg. SDFN.

09/12/89: CTD \$1,675,412

Waiting on perf'ing bids.

09/13/89: CTD \$1,675,432

Waiting on perf guns.

09/15/89: CTD \$1,675,452

Perf bid awarded to Vann Systems.

09/16/89: Wait on perf guns to be built.

09/18/89: CTD \$1,827,093

Wait on Vann Systems to build perf guns.

09/19/89: CTD \$1,827,113

Wait on Vann Systems to build perf guns.

09/20/89: CTD \$1,827,133

Wait on Vann Systems to build perf guns.

09/21/89: CTD \$1,833,008

Cont TIH w/open ended tbg to 11,414'. Rev circ 10# brine wtr 4 bpm @ 1100 psi. Mix & circ in 440 gal Nat'l oil well HIB-320 oxygen scavenger & corrosion inhibitor w/500 bbls 10# brine wtr. Cont circ 6 bpm for 500 bbls. Pull out & LD 66 jts 2-7/8" tbg on pipe rack. Cont out of hole w/open

ended tbg leaving 1100' kill string in well. SDFN.

09/22/89: CTD \$1,833,068

Shut down. Wait on perf guns to be built. Will start in

hole w/perf guns 7:00 am 09/25/89.

09/25/89:

CTD \$1,950,159

POOH w/open ended kill string. Make up & RIH w/Vann Systems TCP assy (5" guns) 2 spf 90° phasing & 32 gram charges. (from 11,378-13,244′ - 992′, 2039 holes). Make up Guiberson 7" Uni-Pkr V, SN, 1 jt 2-7/8" N-80 EUE & 6′ pup w/RA tag. TIH w/363 jts 2-7/8" N-80 EUE tbg. RU Mercury WL. RIH & run gamma ray correlation log. RD WL trk. Space out pkr by removing 31.64′ jt of 2-7/8" tbg & running 28.13′ subs. Set pkr @ 11,265′ & land tbg in wellhead w/20,000# comp (5′ slack off). RD tongs & floor. NU 5000# dual string tree. Run all lines. Dropped detonating bar @ 8:30 pm. Had slight blow w/no pressure. Left open overnight. 7:00 am 09/26/89 no press, no flow.

09/26/89:

CTD \$1,195,859

RU swab equip. Could not get swab cups 15' below tree. Remove swab equip. RU 3/4" sinker bar. Could not get below same pt. Order out hot oil trk to pump fm wtr down tbg. Close well in to press test lines to 4000 psi. Well press up on tbg & csg to 825 psi. RD hot oil trk. Open tbg to frac. Flow 33 BO & wtr in 42 min & died. Csg press dropped to 0 psi. RU sinker bar & worked 15' below wellhead. Worked thru, but hung up coming out. RD sinker bar. RU & pump down tbg w/fm wtr. Pump 50 bbls & picked up circ out 7" csg 4 BPM. No press. Mix dye pill, pump 6-1/2 bbls, dye returned. SD. Leave well open to frac tank on full ck. Well flowed 15 BO & wtr from 5:30 pm to 6:15 pm & died. Well kicked @ 8:30 pm, press up 200 psi, flowed 9 bbls fluid & died @ 9:20 pm. Well remained dead to 7:00 am.

09/27/89:

CTD \$1,197,239

ND wellhead. NU BOP. POOH w/2-7/8" tbg subs & 7 jts 2-7/8" 6.5# N-80 8rd tbg. Found tbg parted in tension near btm of 7th jt down. WO fishing tools. SDFN.

09/28/89:

CTD \$1,200,254

10 hr SITP 600 psi. Fish parted tbg. Bled well down. Flowed 18 BO in 90 mins then died. Made 3 fishing runs to catch tbg collar w/collar catch & pack-off over shot @ 320'. Caught fish on 3rd trip. Tbg stuck, calc stretch. Stretch tables show tbg stuck at +/- 12,000'. Circ 140 bbls 10 ppg brine to kill. SDFN.

09/29/89:

CTD \$1,204,989

14 hr SITP 200 psi. RU WL. RIH w/70 grain string shot. Backed off, stuck tbg @ 1060'. POOH w/22 jts. Jt 16 thru 22 from surf badly cork-screwed. RIH w/collar catch & caught top of tbg. PU to 110,000#. Tbg stuck. RIH w/1-7/16" free pt tool. Could not go past 2100'. POOH. SDFWE.

10/02/89:

CTD \$1,209,684

61 hr SITP 2400 psi. Fishing parted & stuck tbg. RU WL. RIH w/string shot to attempt back off. Could not get down tbg past 2176'. Attempted back off. Backed off high twice. Screwed back in. RIH w/collar locator to 5000'. WL dragging over 800#. POOH. RIH w/2-1/4" OD jet cutter. Could not get past 2176'. SDFN. Will attempt lesser OD jet cutters in AM.

10/03/89:

CTD \$1,213,924

Fishing parted & stuck tbg. RU WL. RIH w/2-1/8" OD jet cutter. Could not get past 2176'. POOH. RIH w/1-3/8" x 6' string shot. Could not get past 2176'. RIH w/2-1/4" x 6' chemical cutter to 2135'. Cut tbg. POOH w/WL. Circ wax & kill well w/fm wtr. SDFN.

10/04/89:

CTD \$1,217,709

12 hr SITP 2000 psi. Fishing parted & stuck tbg. POOH w/2-7/8" tbg after cut off @ 2124'. RIH w/5-3/4" overshot & 30" extension to catch tbg @ 2124'. RU WL. Made successive gauge runs to find max OD clearance. Found same tight spot @ 2176' Can not get thru w/1-13/16" x 3'. Can get thru w/1-3/8" x 5' w/100,000# pull on tbg. SDFN.

10/05/89:

16 hr SITP 1600 psi. Fishing parted & stuck tbg. Circ out approx 60 BO & much gas w/120 bbls fm wtr to kill. RU WL. RIH w/1-3/8" x 5' 70 grain string shot. Attempt back-off @ 2315' (below tight spot @ 2176'). Backed off repeatedly @ 1485'. Made back off @ 2375' after 3 attempts. POOH w/WL. POOH w/2370' 2-7/8" tbg. Found extreme dog let in 71st jt from surf. RIH w/5-3/4" overshot w/3-21/32" grapple & caught top of fish @ 2370'. Work tbg to 120,000# pull. SDFN.

10/06/89:

CTD \$1,229,499

14 hr SITP 1600 psi. Circ oil & gas out to kill. RU WL. RIH w/free pt tool. Found free pt @ 8250'. Could not get 1-11/16" free pt tool past 8885'. Cut tbg @ 8202'. RD WL. SDFWE.

10/09/89:

CTD \$1,232,239

63 hr SITP 2200 psi. Fishing parted & stuck tbg. Roll hole to kill. POOH w/8202' 2-7/8" tbg (tbg cut off @ 8202' on 10/06/89). LD 187 jts cork-screwed 2-7/8" tbg. RIH w/5-3/4" overshot on 2-7/8" tbg to catch 2-7/8" tbg body to EOT @ +/- 6030'. SDFN.

10/10/89:

CTD \$1,240,265

Fishing parted & stuck tbg. Blew well down. Pumped 40 bbls fm wtr to kill. Finished RIH w/fishing string. Caught cut-off 2-7/8" tbg @ 8202'. Roll hole w/450 bbl fm wtr to clean up & kill. RU WL. RIH w/1-13/16" x 8' free pt tool. Could not get past 9560'. Tbg free @ 9560'. POOH. RIH w/2-1/8" x 13' chemical cutter. Could not get past 8350'. POOH. RIH w/2-1/8" x 3' jet cutter. Found pkr @ 11,290'. PU & cut tbg @ 11,241'. Incomplete cut. POOH. Work tbg free in 20 mins. SDFN.

10/11/89:

CTD \$1,243,735

Fishing parted & stuck tbg. Roll hole w/fm wtr. w/2-7/8" tbg cut off @ 11,241'. LD 97 jts cork-screwed 2-7/8" tbg. RIH w/5-3/4" overshot w/cut rited ID guide shoe & grapple for 2-7/8" body catch on 2-7/8" tbg to EOT @ 8974'. SDFN.

10/12/89:

CTD \$1,251,951

12 hr SITP 1750 psi. Fishing parted & stuck tbg. Roll hole w/fm wtr from EOT @ 8990'. PU & RIH w/2-7/8" tbg. Mill on jet cut tbg @ 11,241' 2 hrs. Caught cut off tbg @ 11,241'. Jarred on fish. Would not move. RU WL. RIH $\frac{v}{1-13/16}$ x 8' free pt tool. Would not go below btm of pkr @ 11,295'. POOH. RIH w/2-1/8" x 24" jet cutter. Would not go below btm of pkr @ 11,295'. POOH. Jarred on fish 1-1/2 hrs. No movement. SDFN.

10/13/89:

CTD \$1,258,921

Release overshot from fish (top of cut-off tbg @ 11,241'). POOH w/fishing string & tbg jars. RIH w/5-3/4" OS, 30" extension, bumper sub, hydraulic jars, 5 4-3/4" DC's intensified, 5 4-3/4" jars & 2-7/8" tbg to EOT @ 10,000'. SDFN.

10/14/89:

RIH w/remaining 2-7/8" tbg. Caught fish @ 11,241'. Jarred for 5 hrs @ 50,000# over shot wt. No movement. SDFWE.

10/16/89:

CTD \$1,265,666

Fishing parted & stuck tbg. RU Dowell Schlumberger. 1000 gal 15% HCl around fish below 11,373'. RD Dowell. Jar on fish. Jars failed after 1 cycle. RU WL. RIH w/1" x 3' 140 gr/ft string shot below 1" x 1' collar locator. below pkr to 11,375'. Attempted back off w/string shot. Backed off high @ 6994'. POOH w/WL. Screwed back in @ 6994'. Released overshot @ 11,241'. Rev circ clean. SDFN.

10/17/89:

COMPLETION CTD \$1,270,271

Fishing parted & stuck tbg. Circ 250 bbls wtr to kill. POOH w/fishing string to retighten & change jars. Found overshot damaged (egged). RIH w/5-3/4" OS, bumper sub, jars, 5 4-3/4" DC's, intensifier, 5 4-3/4" DC's & 2-7/8"

N-80 8rd tbg to EOT @ 11,200'. SDFN.

10/18/89:

CTD \$1,278,023

Circ to kill. Engage fish @ 11,241'. RU WL. RIH w/1" x 4' 140 gr/ft string shot & collar locator. Could not get past POOH. Pump 20 bbls wtr down tbg. 11,244'. w/30,000# over string wt 10 times. RIH w/same string shot. Still could not get past 11,244'. POOH. RU swab line. Swabbed well to flowing in 5 runs. Turned to tank battery

overnite.

10/19/89:

CTD \$1,282,408

Flowed overnite 56 BO & 40 BW in 11 hrs. Pumped down tbg w/80 bbls hot fm wtr. RU WI. RIH w/1" x 4' 140 gr/ft string shot on 1" collar locator. Could not go thru 11,244'. POOH. RIH w/5/8" line wrapped 3' w/140 gr/ft string shot. Worked & jarred tbg. Still could not get thru 11.244'. POOH. Jarred fish 3 hrs @ 140,000#.

movement. Released overshot from fish. SDFN.

10/20/89:

CTD \$1,290,493

Fishing parted & stuck tbg. POOH w/5-3/4" overshot & heavy fishing tools. RIH w/4-11/16" overshot, kickout sub & 2-7/8" tbg, torqued to 2100# in. Engaged fish @ 11,241'. RU WL. RIH w/1/2" x 33' string shot w/140 gr/ft. Spotted string shot out side tbg below overshot 11,252-11,285'. Attempted backoff w/left hand torque & string shot. WL stuck after shot fired. Worked tbg 4-1/2 hrs. Backed off high @ +/- 6000'. Screwed back in. Attempted to Could not. Left well open to tank release overshot.

battery overnite.

10/21/89: Attempted to free 5/16" WL. Could not. WO line cutter.

SDFWE.

10/23/89:

CTD \$1,296,538

24 hr SITP 450 psi. Fishing parted & stuck tbg. Attempted to bleed press off tbg. Would not die. Installed 1" dia hot tap in WL lubricator. Pumped 300 bbls hot wtr down tbg. Displaced oil & gas out of annulus. Dropped line cutting bar down tbg to cut 5/16" WL @ kickout sub @ 11,235'. Bar did not cut line. Work WL 45 min. Would not part. SDFN.

CTD \$1,306,258 10/24/89:

Fishing parted & stuck tbg. Circ well w/hot oiler. Drop Kinley WL cutter. Wait 45 mins while working stuck line. Drop bar to fire. Line free. POOH. Found line cut @ 7379' (left +/- 3900' of line in hole). Fished

drop bar & cutter w/WL. SDFN.

CTD \$1,307,973 10/25/89:

> Fishing 5-1/6" line in parted & stuck tbg. RIH w/2-1/8" OD WL spear on 9/16" sand line to fish remaining 5/16" WL. Made 3 runs. Rec small amount stranded wire. SDFN.

CTD \$1,309,718 10/26/89:

> Fishing 5-1/6" line in parted & stuck tbg. Made 15 runs w/9/16" SD w/WL spear. POOH w/small amount frayed wire each run. SDFN.

10/27/89: CTD \$1,312,628

Fishing parted & stuck tbg. Cont fishing 5/16" WL in tbg w/WL spears on 9/16" sandline. Rec small amount fragmented WL. SDFN.

Cont fishing 5/15" WL in tbg @ +/- 7600' w/WL spear on 9/16" 10/28/89: sandline. Rec approx 20' WL in 3' & 4' pieces. SDFWE.

10/30/89: CTD \$1,315,123

> Fishing 5/16" line in parted & stuck tbg. Cont fishing 5/16" wire w/spear on 9/16" sand line. Rec 4' in 4 runs. RU power swivel. Worked tbg 4 hrs attempting to release overshot @ 11,241'. Would not release. SDFN.

10/31/89: CTD \$1,316,528

> Fishing 5/16" line from parted & stuck tbg. Circ well clean w/hot oiler. Haul out & unload 370 jts 2-1/16" 3.25# N-80 tbg. SDFN.

11/01/89: CTD \$1,322,053

> Fishing 5/16" line from parted & stuck tbg. Circ well w/hot oiler. RU Dowell-Schlumberger. Treat 2-7/8" tbg ID w/250 gal "Tube-Clean" (HCl Erythobic Acid, surfactant). Spot 50 gals 28% HCl in tbg 10,835-11,040' to attempt to weaken Soak 2-1/2 hrs. Rev circ clean. RIH w/WL spear on 9/16" sandline. Dowell-Schlumberger. Made 2 runs. Rec small amount frayed WL. Failed to get solid grab. SDFN.

11/02/89: CTD \$1,328,539

Fishing parted & stuck tbg. Circ well w/hot oiler. RIH w/WL spear on 9/16" sandline to fish parted 5/16" WL. Rec 3450' WL on 2nd run. RU WL trk. RIH w/2.34 OD NO-GO & sinker bar on 5/16" WL. Could not go past 10,873' (368' above over shot). POOH. RIH w/chemical cutter. Cut 2-7/8" tbg @ 10,831'. POOH. SDFN.

11/03/89: CTD \$1,340,104

Circ well w/440 bbls fm wtr to kill. POOH w/2-7/8" tbg to cut jt. RIH w/4-11/16" overshot, bumper sub, jars, 5 4-3/4" DC's & 2-7/8" N-80 8rd tbg. Engaged cut-off tbg @ 10,831'. Worked tbg to attempt to release over shot @ 11,241'. Would not release. SDFN.

11/04/89: Circ well w/440 bbls fm wtr to kill. Cont attempt to work over shot free @ 11,241'. Attempt to release overshot @ 10,831'. Backed off high. Screw back in. RU WL. RIH & cut tbg @ 10,837'. POOH. SDFWE.

11/06/89: SI. WO P-105 tbg workstring.

11/08/89: CTD \$1,340,104

SI. WO 2-7/8" P-105 tbg workstring.

11/13/89: CTD \$1,344,417

Circ well to kill. Unload 426 jts 2-7/8" 6.5# P105 8rd tbg. P00H & LD 344 jts 2-7/8" 6.5# N-80 8rd tbg. RIH w/4-11/16" OS w/left hand release over shot, bumper sub, jars, DC's & 44 jts 2-7/8" P105 tbg. SDFN.

11/14/89: CTD \$1,346,182

Circ well from EOT @ 1550'. PU & RIH w/2-7/8" 6.5# P105 tbg between kicks. Ran total 213 jts to EOT @ 6900'. SDFN. Rec approx 150 BO in 10 hrs.

11/15/89: CTD \$1,351,742

12 hr SITP 1200 psi. Finish PU & RIH w/2-7/8" 6.5# P105 8rd tbg w/well kicking intermittently. Engage fish @ 10,836' w/left-hand release overshot Worked tbg 40 mins attempting to release overshot @ 11,241' w/right-hand torque. Would not release. Released off fish @ 10,836'. POOH w/4 jts tbg. SDFN.

11/16/89: CTD \$1,355,922

Circ well to kill. POOH w/2-7/8" Pl05 tbg & fishing string. RIH w/5-7/8" guide shoe w/m anual outside tbg cutter, 13 jts 4-1/2" was pipe (388.65') on 2-7/8" Pl05 tbg. Ran tbg intermittently while well kicking. EOT @ 6612'. SDFN.

11/17/89: CTD \$1,359,417

Fishing parted & stuck tbg. Circ well to kill from EOT @ 6612'. Drop over fish w/outside manual tbg cutter to 11,235'. Attempt to make outside cut @ 11,235'. Did not cut off of fish. PU to EOT @ 10,800'. SDFN.

11/18/89: CTD \$1,364,802

Circ well to kill. POOH w/2-7/8" tbg & tools. RIH w/new 5-7/8" manual tbg cutter, 13 jts 4-1/2" wash pipe & 2-7/8" P-105 tbg to EOT @ 6612' while well intermittently kicking. SDFWE.

11/20/89: CTD \$1,369,872

10 hr SITP 1200 psi. Fishing parted & stuck tbg. Circ well to kill. Finished RIH w/outside tbg cutter, 4-1/2" washpipe & 2-7/8" tbg. Worked down over 13 jts of fish to 11,235'. PU to next collar & attempted to make cut @ 11,205'. Gained 2000# string wt & lost torque after 1 min. POOH w/14 jts 2-7/8" tbg. SDFN.

11/21/89: CTD \$1,377,562

Fishing parted and stuck tbg. Finish POOH w/tbg cutter on 2-7/8" tbg. Found 369' tbg in washpipe (11 jts plus 2 cut offs) complete w/211' 5/16" wireline. RIH w/4-11/16" guide shoe and OS w/left hand release grapple for 2-7/8" tbg body, bumper sub, jars, 5 4-3/4" DC's, intensifier, 5 4-3/4" DC's & 2-7/8" P105 tbg to EOT @ +/- 7000'. SDFN.

11/22/89: CTD \$1,385,267

10 hr SIP 700 psi. Pump 60 bbls 10 ppg brine to kill. Finished RIH w/2-7/8" tbg to top of fish @ 11,205'. Engage fish & work tbg to attempt to release overshot @ 11,241'. Indications that overshot released @ 11,241'. POOH to EOT @ 8000'. SDFH.

11/24/89: Circ well to kill. Began to POOH. Rig broke down. SI for rig repair.

11/27/89: CTD \$1,392,442

Circ well to kill. POOH w/2-7/8" fishing string w/left hand release overshot. Found 19' 5/16" wireline in overshot. RIH w/same fishing string, 5-3/4" guide shoe w/left hand release overshot for 2-7/8" tbg body catcher, bumper sub, jars, 5 DC's, intensifier & 5 DC's on 2-7/8" tbg to EOT @ 8700'. SDFN.

11/28/89: CTD \$1,398,662

Circ well to kill. Cont RIH w/2-7/8" to catch top of fish @ 11,205'. Engage fish w/left hand release overshot. Work tbg w/2200# torque and jarred w/30,000# on tbg. PU w/25,000# additional string wt. POOH w/20 jts tbg, hanging up every +/- 40'. Circ well overnite.

11/29/89: CTD \$1,404,432

Finished POOH w/fishing string w/fish complete. RIH open ended w/2-7/8" tbg to EOT @ 5080'. SDFN.

11/30/89: CTD \$2,161,212

Circ well to kill w/EOT @ 5080'. RIH w/2-7/8" tbg to EOT @

10,868'. Hook up trace pump to circ overnite.

NOTE: Correction of "CTD" cost. Incorrect cost has been carried on report since 09/26/89.

12/01/89: CTD \$2,173,488

11 hr SITP 40 psi. Circ well to kill. POOH w/2-7/8" P-105 tbg. RU OWP WL. RIH w/Baker 7" 29# Model "D" pkr w/3-1/2" x 6' mill out extension, 2-3/8" x 6' tbg sub, 1.87" "F" nipple, 2-3/8" x 4' tbg sub & Model "K" expendable check valve. Set pkr @ 11,290' (per Schlumberger CBL of 08/08/89). RD OWP. RIH w/2-7/8" P-105 tbg to EOT @ 11,000'. SDFN.

12/02/89: CTD \$2,174,713

POOH & LD 345 jts 2-7/8" 6.5# P105 8rd tbg work string.

SDFWE.

12/04/89: CTD \$2,175,828

LD drill collars & fish tools. Load & haul 425 jts 2-7/8"

6.5# P-105 8rd tbg work string.

12/05/89: CTD \$2,178,941

Haul & unload 3-1/2" 10.3# N-80 8rd tbg. Hydrotest in hole w/seal assmy for Baker Model "D" pkr, SN & 149 jts 3-1/2"

tbg to 8500 psi. SDFN.

12/06/89: CTD \$2,183,025

Finish hydrotesting 3-1/2" 10.3# tbg to 8500 psi. Stung

into Baker Model "D" pkr @ 11,290'. SDFN.

12/07/89: CTD \$2,184,302

Press test annulus & seal assembly to 2500 psi, OK. Land 3-1/2" tbg on 47,000# comp. ND BOP. NU 3-1/16" x 10,000 psi single tree. Press test tree to 5000 psi, OK. SDFN.

12/12/89:

RU Dowell-Schlumberger to acidize Wasatch perfs 11,378-13,244' w/80,000 gal 7-1/2% HCl w/1500 SCF/bbl CO_2 . Alternated 15,000 gal stages of acid w/4 diversion stages of 3000 gal 10 ppg brine w/2000# each of rock salt, benzoic acid flakes & wax beads. Dropped 1000 ball sealers before each diversion stage. Tagged job w/scandium and iridium isotopes. Flushed w/166 bbls 2% KCl wtr. Avg rate & press 13 BFPM (+ 7 BPM CO_2) @ 9800 psi. Max rate 16.2 BFPM (+ 9 BPM CO_2) @10,000 psi w/346 psi fluid gone. Max press 10,400 psi @ 9.1 BFPM when diversion hit w/1814 bbl fluid gone. ISIP 5100 psi, 5 min 5025 psi, 10 min 5000 psi, 15 min 4975 psi. RD Dowell-Schlumberger. Opened well to test tank. Flowed 307 BO & 178 BW in 15 hrs on 18/64-30/64" ck @ 4000 psi down to 1600 psi.

12/13/89:

CTD \$2,289,292

Flowing well to tank battery. Low temp on treater due to much gas. Attempted to run & set tbg plug in 1.87" ID "F" nipple @ 11,298'. Could not go paset 1100'. Flowed approx 310 BO & 80 BW in 24 hrs on 24/64" ck @ 2000 psi FTP.

12/08/89: CTD \$2,185,972

SI. WO CO2 for acid job.

12/10/89: Pump out expendable check valve in tail pipe of Baker Model

"D" pkr @ 11,290'. Opened well to tank battery. Flowed 154

BO & 48 BW in 14 hrs on 32/64" ck.

12/11/89: Shut down. Waiting on Dowell-Schlumberger to acidize.

12/12/89: RU Dowell-Schlumberger to acidize Wasatch perfs

11,378-13,244' w/80,000 gal 7-1/2% HCl w/1500 SCF/bbl CO_2 . Alternated 15,000 gal stages of acid w/4 diversion stages of 3000 gal 10 ppg brine w/2000# each of rock salt, benzoic acid flakes & wax beads. Dropped 1000 ball sealers before each diversion stage. Tagged job w/scandium and iridium isotopes. Flushed w/166 bbls 2% KCl wtr. Avg rate & press 13 BFPM (+ 7 BPM CO_2) @ 9800 psi. Max rate 16.2 BFPM (+ 9 BPM CO_2) @10,000 psi w/346 psi fluid gone. Max press 10,400 psi @ 9.1 BFPM when diversion hit w/1814 bbl fluid gone. ISIP 5100 psi, 5 min 5025 psi, 10 min 5000 psi, 15 min 4975 psi. RD Dowell-Schlumberger. Opened well to test tank. Flowed 307 BO & 178 BW in 15 hrs on 18/64-30/64*

ck @ 4000 psi down to 1600 psi.

12/13/89: CTD \$2,289,292

Flowing well to tank battery. Low temp on treater due to much gas. Attempted to run & set tbg plug in 1.87" ID "F" nipple @ 11,298'. Could not go past 1100'. Flowed approx

310 BO & 80 BW in 24 hrs on 24/64" ck @ 2000 psi FTP.

12/14/89: CTD \$2,293,523

Pumped 30 bbls hot diesel down tbg. RU WL. Cut wax w/3" wax knife. RIH & set tbg plug for 1.87" "F" nipple in

tailpipe of Baker Model "D" pkr @ 11,290'. RD WL. SDFN.

12/15/89: CTD \$2,295,755

ND wellhead. NU BOP. Sting out of Model "D" pkr @ 11,290'. Rev circ clean w/200 bbls hot wtr. POOH & LD 362

jts 3-1/2" 10.3# N-80 10rd tbg & seal assbly. SDFWE.

WESTERN DIVISION DAILY WORKOVER REPORTS 12/28/89 - 1 -

Mark #2-25A2

DEV - Duchesne County, Utah - Bluebell/Altamont Field Sec 25, T1S, R2W - Pennzoil - PZL W.I. 49.85393% - PD 13,500' - AFE # 07096105 - AFE cost \$1,855,000

COMPLETION

12/15/89 CTD \$2,295,755
ND wellhead. NU BOP. Sting out of Model "D" pkr @ 11,290'. Rev circ clean w/200 bbls hot wtr. POOH & LD 362 jts 3-1/2" 10.3# N-80 10rd tbg & seal assembly. SDFWE.

12/18/89 CTD \$2,298,266
Hydrotest in hole to 8000 psi w/seal assembly for Baker Model "D" pkr & 193 jts 2-7/8" 6.5# N-80 8rd tbg. SDFN.

12/19/89 CTD \$2,302,937
Finish hydrotest 2-7/8" tbg to 8000 psi. Spaced out for Baker Model "D" pkr @ 11,290'. Circ pkr fluid. Stung into pkr. SDFN.

12/20/89 CTD \$2,305,507
Land 2-7/8" tbg. Install BPV in 2-7/8" tbg. RIH open ended & land 210 jts 2-1/16" 3.25# N-80 10rd tbg sidestring. EOT @ 7002'. ND BOP. NU wellhead. Circ down hole, trace overnite.

12/21/89 CTD \$2,307,438
RU WL. Equalize & POOH w/tbg plug from "F" nipple in tailpipe of pkr @ 11,290'. Flowed well to tank battery. Flowed 285 BO & 3 BW in 17 hrs on 18/64" ck @ 1500 psi FTP.

12/22/89 CTD \$2,308,548
RD completion rig. Haul tbg & equip. Flowed 312 BO & 5 BW in 19 hrs on 18/64" ck w/FTP 1200 psi.

12/23/89 CTD \$2,308,548 Flowed 567 BO & 0 BW in 24 hrs on 18/64" ck w/FTP 1100 psi.

12/24/89 CTD \$2,308,548 Flowed 558 BO & O BW in 24 hrs on 18/64" ck w/FTP 850 psi. 12/25/89 CTD \$2,308,548 Flowed 589 BO & O BW in 24 hrs on 18/64" ck w/FTP 550 psi. CTD \$2,308,548 12/26/89 Flowed 538 BO & O BW in 24 hrs on 18/64" ck w/FTP 450 psi. 12/27/89 CTD \$2,320,548 Flowed 586 BO & 22 BW in 24 hrs on 18/64" choke at 400 psi. Will run tracer survey for isotopes pumped with acid job of 12/12/89 in the AM. Will run production logs on Friday 12/29/89. FINAL REPORT.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND RE	5. Lease Designation and Serial No.				
Do not use this form for proposals to drill or	6. If Indian, Allottee or Tribe Name				
Use "APPLICATION FOR PE	Ute Tribal				
	7. If unit or CA, Agreement Designation				
SUBMIT IN T	RIPLICATE				
1. Type of Well		NW537			
X Oil Well Gas well Other		8. Well Name and No.			
2. Name of Operator		Mark 2-25A2			
Pennzoil Company		9. API Well No.			
Address and Telephone No. P.O. Drawer 10 Roosevelt, UT	84066 (801) 722-6222	43-013-31232-00 10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	(551) 122 5222	Bluebell-Wasatch			
		11. County or Parish, State			
670' FNL and 1798' FEL of Section 25,	T1S, R2W	Duchesne, Utah			
12 CHECK APPROPRIATE BOX(s) TO	INDICATE NATURE OF NOTICE, REPORT, O	DR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION				
Notice of Intent	Abandonment	Change of Plans			
	Recompletion	New Construction			
Subsequent Report	Plugging Back	Non-Routine Fracturing			
	Casing repair	Water Shut-off			
Final Abandonment Notice	Altering Casing	Conversion to Injection			
	X Other Add new perfs, reperf & acidize	Dispose Water (Note: Report results of multiple completion on Well			
13 Describe Proposed or Completed Operations (Clearly state all perti	nent details, and give pertinent dates, including estimated date of starting any p	Completion or Recompletion Report and Log form.)			
drilled, give subsurface locations and measured and true ver		,			
Pennzoil plans to perforate new Wasato	h pay from 11,105-11,117' and acidize with 120	0 gallons 15% HCL.			
Also plan to reperforate 11,628-34', 11,8	340-48' and 12,892-906' then acidize old Wasat	ch pay between			
11,378' and 13,058' with approximately	35,000 gallons in 6 stages.				
Work should begin during the first half of May 1996.					
Verbal permission to begin this work gra	inted by Mr. Jerry Kenczka (BLM - Vernal, UT)	and Mr. Mike			
Hebertson (State of UT, DOGM - SLC, UT) on 5-1-96.					
$\overline{}$					
14. I hereby certify that the foregoing is true and correct Signed Jess Dullnig	Petroleum Engineer	Date 1-May-96			
(This space of Federal or State office use.)	ALD C				
Approved by	Title HM Woum cumer	Date 5/1/96			
Conditions of approval, if any:	The state of the s				
/		/ '			

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR CHANGE WORKSHEET

ROUTING			
. GLH	4-KAS		
2. CDW	5-970 V		
BLILT	6-FILE		

Enter date after each listed item is completed

Change of Operator (Well Sold)

Designation of Agent

Operator Name Change (Only)

X Merger

The operator of the well(s) listed below has	change	d, effective:	04/1/200	00			
		1	mo				
FROM: (Old Operator):			TO: (New Operator):				
PENNZOIL EXPLORATION & PRODUCTION CO				ENERGY EXP			
Address: P. O. BOX 4616 6TH FLOOR			Address:	20 NORTH E	BROADWAY	Y STE 15	00
HOUSTON, TX 77210-4616		OKLAHO	MA CITY, O	K 73102-820	50		
Phone: 1-(713)-546-6590			Phone: 1-(405)-235-3611				
Account No. N2885			Account	No. N1275			
	A No.		Unit:	110.111275			
WELL(S)							
		API	ENTITY	SEC. TWN	LEASE	WELL	WELL
NAME		NO.	NO.	RNG	TYPE	TYPE	STATUS
DUNCAN 4-12A2 CA (UTU	J 77336)	43-013-31233	10990	12-01S-02W	FEE	GW	TA
WOODWARD 1-21A2 CA	A (590)	43-013-30130	5665	21-01S-02W	FEE	ow	P
SWYKES 2-21A2 C	A (590)	43-013-31235	10998	21-01S-02W	FEE	ow	P
MARK 2-25A2 C	A (537)	43-013-31232	10986	25-01S-02W	FEE	ow	P
COOK 1-26B1 CA (UTI	J 68998	43-047-31981	11212	26-02S-01W	FEE	OW	P
			<u> </u>			ļ	
						+	
						 	
OPERATOR CHANGES DOCUMENTAT	ION			***************************************			•
(R649-8-10) Sundry or legal documentation was re-	ceived f	from the FORM	FD operato	r on:	04/20/2000	1	
1. (1007) 6 10) Suitary of legal documentation was le	ccivedi	iom the Forest	EK operato	i on.	04/20/2000	, 	
2. (R649-8-10) Sundry or legal documentation was re-	ceived f	from the NEW o	perator on:		04/20/2000)	
3. The new company has been checked through the D	epartm	ent of Commerc	ce, Division	of Corporation	ons Databas	se on:	10/12/2000
4. Is the new operator registered in the State of Utah:		YES	Business N	Jumber	4549132-014	12	
is the new operator registered in the state of Statis.		TLO	_ Dusiness 1	vuilloci.	1 5 1 5152-01-	<u>-</u> 3	
5. If NO , the operator was contacted contacted on:			-				
6. Federal and Indian Lease Wells: The BL or operator change for all wells listed on Federal or			approved	1 the (merger 02/16/2000	r, name cha -	ange,	
7. Federal and Indian Units: The BLM or BL for wells listed on:	A has a	approved the s	successor	of unit opera	ntor		

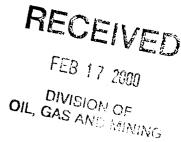
change for all wells listed involved in a CA on:	ments ("CA"): The BLM or the BIA has approved the operator N/A
O.Underground Injection Control ("UIC") Prog for the enhanced/secondary recovery unit/project for the	2: The Division has approved UIC Form 5, Transfer of Authority to Inject , water disposal well(s) listed on: N/A
DATA ENTRY: Changes entered in the Oil and Gas Database on:	11/24/2000
2. Changes have been entered on the Monthly Operator C	Change Spread Sheet on: 11/24/2000
Bond information entered in RBDMS on:	11/24/2000
4. Fee wells attached to bond in RBDMS on:	11/24/2000
STATE BOND VERIFICATION: 1. State well(s) covered by Bond No.:	N/A
 FEE WELLS - BOND VERIFICATION/LEAS (R649-3-1) The NEW operator of any fee well(s) listed The FORMER operator has requested a release of liabil The Division sent response by letter on: 	lity from their bond on: N/A
3. (R649-2-10) The FORMER operator of the Fee wells he of their responsibility to notify all interest owners of this	has been contacted and informed by a letter from the Division is change on: $\frac{11/26/2000}{11/26/2000}$
FILMING: 1. All attachments to this form have been MICROFILMI	ED on: 2,260/
FILING: 1. ORIGINALS/COPIES of all attachments pertaining to	each individual well have been filled in each well file on:
COMMENTS:	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155



In Reply Refer To: 3106 U-0575A et al (UT-932)

FEB 1 6 2000

NOTICE

Devon Energy Production Company L.P. 20 North Broadway, Suite 1500

Oklahoma City, Oklahoma 73102-8260

Oil and Gas U-0575A et al

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Devon Energy Corporation (Nevada) and PennzEnergy Exploration and Production Company, L.L.C. into Devon Energy Production Company, L.P. with that company being the surviving entity.

The oil and gas lease files listed on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from your list of leases, and a list of leases obtained from our computer system. We have not attempted to identify leases where the entities are the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the merger by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

PennzEnergy Company assigned 100 percent of the record title interest, in the following leases on the list submitted by Devon Energy Production Company L.P., to Barrett Resources Corporation (Barrett) effective January 1, 2000.

U-0143511

U-4377

UTU-67943

U-0143512

U-4378

Subsequently, Barrett assigned 100 percent of the record title interest to Coastal Oil & Gas Corporation effective February 1, 2000. A copy of this notice is being placed in these files to cover any overriding royalty interest that would be held by the surviving entity.

Lease U-0115614A is held 100 percent by Flying J Oil & Gas. PennzEnergy Company holds 100 percent of the record title interest in lease U-3575. No record title assignment assigning the interest to PennzEnergy Exploration and Production Company, L.L.C. has been filed in this office. A copy of this notice will be placed in the lease files to cover any overriding royalty interest that would be held by the surviving entity.

STATE OF UTAH DIVISION OF OIL, GAS AND MINING

DESIGNATION OF AGENT OR OPERATOR	
The undersigned is, on record, the holder of oil and gas lease	
LEASE NAME: As per the attached spreadsheet.	
LEASE NUMBER:	
and hereby designates	
NAME: Devon Energy Production Company, L.P.	
ADDRESS: 20 North Broadway, Suite 1500, Oklahoma City, OK 73102-8260	

as his agent []/operator [3]; with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

Describe acreage to which this designation is applicable, and identify each applicable oil and gas well by same and API number. Affect additional pages as needed.)

See attached spreadsheet.

Note: Please use April 1, 2000 as the starting date for production reporting purposes.

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APR 2 0 2000

DIVISION OF OIL, GAS AND MINING

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

CHECTAE DE	te of Designation:January 1, 2000	_
BY: (Name)	R. D. Glark	OF: (Company) PennzEnergy Exploration and Producti
(Signature)	Xell	Company, L.L.C. (Address) 20 North Broadway, Suite 1500
(Title)	Vice President	Oklahoma City, OK 73102-8260
(Phone)	405-235-3611	

Leases U-61343, UTU-64532, UTU-66485 and UTU-75200 have expired and are closed on the records of this office.

An assumption rider for BLM Bond No. CO1104 has been filed in the Colorado State Office.

/a/ Robert Lopez

Robert Lopez Chief, Branch of Minerals Adjudication

Enclosure

Exhibit

cc: Vernal Field Office (w/encl.)

Moab Field Office (w/encl.)

MMS, Reference Data Branch, MS3130, P.O. Box 5860, Denver, CO 80217 (w/encl.) State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT (w/encl.) Teresa Thompson (UT-931) (w/encl.)

Irene Anderson (UT-932) (w/encl.) LaVerne Steah (UT-942) (w/encl.)

Exhibit of Leases

U-0575A	U-0141459	U-4377
U-01188B	U-0143511	U-4378
U-016654	U-0143512	U-16131
U-0115614A	U-0144868A	U-31262
U-0115615	U-3099	U-44426
U-0126825	U-3575	UTU-67943
U-0141454	UTU-74888	-

Communitization Agreements

U-58774 U-58799	U-58835	U-60827
U-58830	U-58839	U-60831
U-58834	U-58844	U-68998
0.00034	U-58854	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155

In Reply Refer To: 3100 U-4377 UTU-66485 (UT-932)

MAR 2 6 1999

NOTICE

PennzEnergy Exploration and Production L.L.C. P.O. Box 2967

Houston, TX 77252-2967

Oil and Gas

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of Pennzoil Exploration and Production Company into PennzEnergy Exploration and Production L.L.C. with PennzEnergy Exploration and Production L.L.C. being the surviving entity.

For our purposes, the merger is recognized effective December 28, 1998, (Secretary of State's approval

Oil and gas lease files U-4377 and UTU-66485 have been noted as to the merger. The lease file numbers were obtained from a list of leases drawn from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8023 29 91 (BLM Bond No. NM0043). The principal/obligor is also automatically changed from Pennzoil Exploration and Production Company to PennzEnergy Exploration and Production L.L.C. on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENUJ. ANDERCON

Irene J. Anderson Acting Group Leader, Minerals Adjudication Group

CC: Moab Field Office Vernal Field Office

MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217 State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801 Teresa Thompson (UT-931)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office P.O. Box 45155 Salt Lake City, UT 84145-0155

In Reply Refer To: 3100 U-0115615 et al (UT-932)

MAR 2 6 1999

NOTICE

PennzEnergy Company P.O. Box 2967 Houston, TX 77252-2967

Oil and Gas

Merger Recognized

Acceptable evidence has been filed in this office concerning the merger of PennzEnergy Company into Pennzoil Company with PennzEnergy Company being the surviving entity.

For our purposes, the merger is recognized effective December 30, 1998, (Secretary of State's approval date).

The oil and gas lease files and communitization agreement computer files identified on the enclosed exhibit have been noted as to the merger. The exhibit was compiled from a list of leases obtained from our Automated Land and Mineral Record System (ALMRS). We have not abstracted the lease files to determine if the entity affected by the merger holds an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

By recognition of the merger, the principal/obligor is automatically changed by operation of law from Pennzoil Company to PennzEnergy Company on Bond No. 8134-90-99 (BLM Bond No. NM2142).

IRENLA ANDERSON

Irene J. Anderson Acting Group Leader, Minerals Adjudication Group

Enclosure

Exhibit

cc:

Moab Field Office Vernal Field Office

MMS, Reference Data Branch, MS 3130, Box 5860, Denver, CO 80217 State of Utah, DOGM, Attn: Kristen Risbeck (Ste. 1210), Box 145801, SLC, UT 84114-5801 Teresa Thompson (UT-931)

Devon Energy Production Company, L.P.

FILED

DEC 3 0 1999

OKLAHOMA SECRETARY

Certificate of Merger

TO:

The Oklahoma Secretary of State

101 State Capitol

Oklahoma City, Oklahoma 73105

OF STATE

Devon Energy Production Company, L.P., a limited partnership organized under the laws of the State of Oklahoma, for the purpose of filing a Certificate of Merger pursuant to the provisions of 54 O.S. § 310.1, does hereby execute the following Certificate of Merger:

1. The name and jurisdiction of formation or organization of each of a domestic limited partnership, a foreign corporation and a foreign limited liability company which are to merge are:

Name of <u>Organization</u>	Type of Organization	Jurisdiction of <u>Formation</u>
Devon Energy Production Company, L.P.	Limited Partnership	Oklahoma
Devon Energy Corporation (Nevada)	Corporation	Nevada
PennzEnergy Exploration and Production Company, L.L.C.	Limited Liability Company	Delaware

- An Agreement of Merger has been approved and executed by the limited partnership, the corporation and the limited liability company which are to merge.
 - 3. The name of the surviving or resulting limited partnership is:

Devon Energy Production Company, L.P.

- The merger shall be effective upon the filing of this Certificate of Merger 4. with the Secretary of State of Oklahoma.
- The Agreement of Merger is on file at the place of business of the surviving 5. limited partnership at 1500 Mid-America Tower, 20 North Broadway, Oklahoma City, Oklahoma 73102.
- A copy of the Agreement of Merger shall be furnished by the surviving or resulting limited partnership, upon request and without cost, to any partner of any limited partnership or any person holding an interest in any other business entity which is to merge

MAR 1 3 2000

DIVISION OF OIL, GAS AND MINING DATED as of the 30th day of December, 1999.

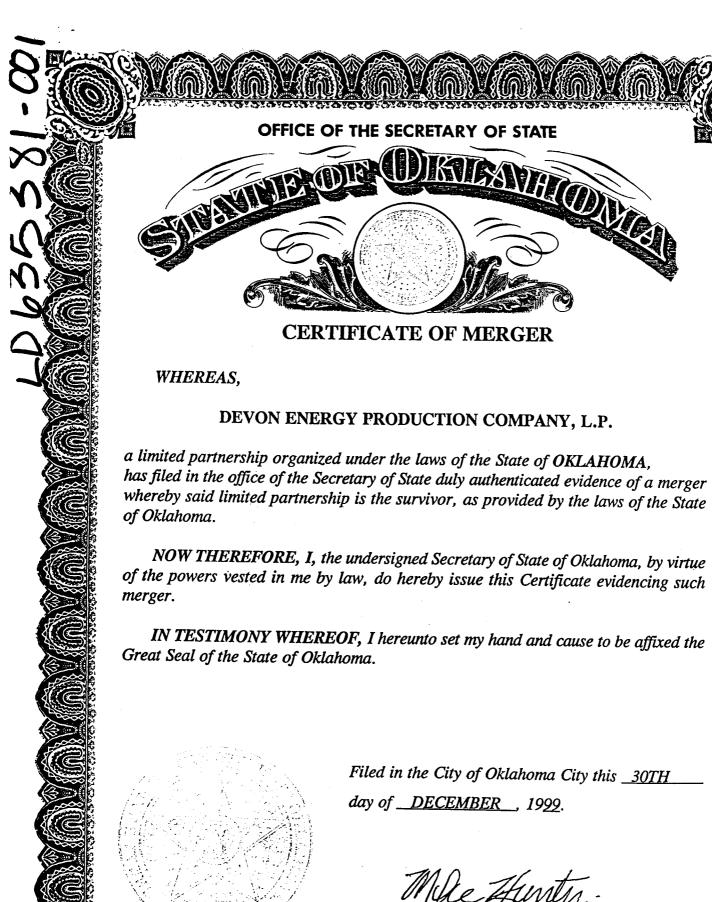
Devon Energy Management Company, L.L.C. General Partner

J. Larry Nichols, Mana

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MAR 1 3 2000

DIVISION OF OIL, GAS AND MINING.



By:

ARR 200 :2000

DEVON ENERGY PRODUCTION COMPANY, L.P. UTAH PROPERTIES

DWSONOF OILOSSANDIMINING

	CASSAMUNIVIII					LEAGE NO. /
	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	LEASE NO. / AGREEMENT NO.
1	4301330005	CLYDE MURRAY 1-2A2	SESW-2-1S-2W	DUCHESNE	BLUEBELL	MONIELINEIVI IVO.
2	4301330006	STATE 1-10A2	SWNE-10-1S-2W	DUCHESNE	BLUEBELL	
3	4301330009	VIRGIL MECHAM 1-11A2	W/2NE-11-1S-2W	DUCHESNE	BLUEBELL	96107
4	4301330011	VICTOR C BROWN 1-4A2	NESE-4-1S-2W	. DUCHESNE	BLUEBELL	
5	4301330017	DOUG BROWN 1-4A2	SENW-4-1S-2W	DUCHESNE	BLUEBELL	
6	43013 30030	CHASEL 1-18A1	NWNE-18-1S-1W	DUCHESNE	BLUEBELL	9628
7	4301330031	OLSEN 1-12A2	SWNE-12-1S-2W	DUCHESNE	BLUEBELL	UTU77363
8	43013 30035	BOREN 1-14A2	NWSW-14-1S-2W	DUCHESNE	BLUEBELL	NW498
9	4301330042	UTE 2-12A3	NESW-12-1S-3W	DUCHESNE	BLUEBELL	1420H621576 Terminated 8-3-93
10	4301330086	L BOREN U 3-15A2	NESW-15-1S-2W	DUCHESNE	BLUEBELL	
11	4301330099	LAMICQ URRUTY U 3-17A2	NWSE-17-1S-2W	DUCHESNE	BLUEBELL	
12	4301330107	L BOREN U 5-22A2	SWNE-22-1S-2W	DUCHESNE	BLUEBELL	
13	4301330115	L BOREN U 4-23A2	SENW-23-1S-2W	DUCHESNE	BLUEBELL	
14	4301330119	VERL JOHNSON 1-27A2	SWNE-27-1S-2W	DUCHESNE	BLUEBELL	
15	43013 30120	TOMLINSON FED 1-25A2	SENW-25-1S-2W	DUCHESNE	BLUEBELL	NW537
16	4301330123	L BOREN U 6-16A2	NWSE-16-1S-2W	DUCHESNE	BLUEBELL	
17	4301330125	UTE 3-18A2	NESW-18-1S-2W	DUCHESNE	BLUEBELL	1420H621750
18	4301330130	WOODWARD 1-21A2	SWNE-21-1S-2W	DUCHESNE	BLUEBELL	NW590
19	4301330133	LAMICQ 1-20A2	SWNE-20-1S-2W	DUCHESNE	BLUEBELL	
20	4301330136	UTE 1-6B3	NWNE-6-2S-3W	DUCHESNE	ALTAMONT	14204621778 / 9651
21	4301330142	SMITH UTE 1-18C5	NWNE-18-3S-5W	DUCHESNE	ALTAMONT	1420H622392
22	4301330143	MAUREL TAYLOR FEE 1-36A2	NESW-36-1S-2W	DUCHESNE	BLUEBELL	
23	4301330200	L ROBERTSON ST. 1-1B2	NESW-1-2S-2W	DUCHESNE	BLUEBELL	
24	4301330212	LAMICQ UTE 1-5B2	NWSE-5-2S-2W	DUCHESNE	BLUEBELL	1420H621806 / 9683
25	4301330236	CAMPBELL UTE ST 1-7B1	SENW-7-2S-1W	DUCHESNE	BLUEBELL	1420H621970 / 9686
26	4301330245	SMITH ALBERT 1-8C5	SENE-8-3S-5W	DUCHESNE	ALTAMONT	
27	4301330294	FRESTON ST 1-8B1	NESW-8-2S-1W	DUCHESNE	BLUEBELL	

APR 2 0 2000

DEVON ENERGY PRODUCTION COMPANY, L.P. UTAH PROPERTIES

DIVISION OF OIL GAS AND MINING

	OIL GAS AND					LEASE NO. /
	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	AGREEMENT NO.
28	4301330297	GEORGE MURRAY 1-16B1	SENW-16-2S-1W	DUCHESNE	BLUEBELL	
29	4301330307	UTE ALLOTTED 1-36Z2	NWSE-36-1N-2W	DUCHESNE	BLUEBELL	1420H621676 / 9C124
30	4301330347	LAMICQ URRUTY U 4-5A2	SENW-5-1S-2W	DUCHESNE	BLUEBELL	
31	4301330359	H G COLTHARP 1-15B1	SENW-15-2S-1W	DUCHESNE	BLUEBELL	
32	4301330369	STATE 3-18A1	NESW-18-1S-1W	DUCHESNE	BLUEBELL	9C142
33	4301330564	D L GALLOWAY 1-14B2	SWNE-14-2S-2W	DUCHESNE	BLUEBELL	
34	4301330807	MARGUERITE 2-8B2	SENW-8-2S-2W	DUCHESNE	BLUEBELL	96102
35	4301330809	LAMICQ 2-6B1	NWSE-6-2S-1W	DUCHESNE	BLUEBELL	
36	4301330821	DILLMAN 2-28A2	SWNE-28-1S-2W	DUCHESNE	BLUEBELL	
37	4301330903	HAMBLIN 2-26A2	SWNE-26-1S-2W	DUCHESNE	BLUEBELL	
38	4301330912	RACHEL JENSEN 2-16C5	NENW-16-3S-5W	DUCHESNE	ALTAMONT	
39	4301330921	ROBERTSON UTE 2-2B2	NENE-2-2S-2W	DUCHESNE	BLUEBELL	9682
40	4301330975	JOHN 2-3B2	NWNE-3-2S-2W	DUCHESNE	BLUEBELL	
41	4301330995	LAMICQ ROBERTSON STATE 2-1B2	SWNE-1-2S-2W	DUCHESNE	BLUEBELL	
42	4301331009	UTE 2-7A2	CNE-7-1S-2W	DUCHESNE	BLUEBELL	1420462811
43	4301331147	HATCH 2-3B1	SENW-3-2S-1W	DUCHESNE	BLUEBELL	
44	4301331151	NORLING 2-9B1	SWSW-9-2S-1W	DUCHESNE	BLUEBELL	
45	4301331184	SHAW 2-27A2	SESW-27-1S-2W	DUCHESNE	BLUEBELL	
46	4301331190	LAMICQ URRUTY 4-17A2	SENW-17-1S-2W	DUCHESNE	BLUEBELL	
47	4301331191	LAMICQ 2-20A2	SESE-20-1S-2W	DUCHESNE	BLUEBELL	
48	4301331192	BOREN 3-11A2	SWSW-11-1S-2W	DUCHESNE	BLUEBELL	96107
49	4301331203	FRESTON 2-8B1	SWNE-8-2S-1W	DUCHESNE	BLUEBELL	
50	4301331215	WISSE 3-35A2	SWSW-35-1S-2W	DUCHESNE	BLUEBELL	
51	4301331231	MECCA 2-8A2	SESE-8-1S-2W	DUCHESNE	BLUEBELL	
52	4301331232	MARK 2-25A2	NWNE-25-1S-2W	DUCHESNE	BLUEBELL	NW537
53	4301331233	DUNCAN 4-12A2	SWNW-12-1S-2W	DUCHESNE	BLUEBELL	UTU77363
54	43013312 35	SWYKES 2-21A2	NWNW-21-1S-2W	DUCHESNE	BLUEBELL	NW590

APR 2 0 2000

DEVON ENERGY PRODUCTION COMPANY, L.P. UTAH PROPERTIES

DIVISION OF OIL, GAS AND MINING

						LEASE NO./
	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	AGREEMENT NO.
55	4301331238	SHERMAN 2-12B2	SWSE-12-2S-2W	DUCHESNE	BLUEBELL	9690
56	4301331245	MILES 7-7B3	SWNW-7-2S-3W	DUCHESNE	ALTAMONT	9675
57	4301331276	DUNCAN 4-2A2	NESE-2-1S-2W	DUCHESNE	BLUEBELL	
58	4301331278	HAMBLIN 3-9A2	SENE-9-1S-2W	DUCHESNE	BLUEBELL	
59	4301331285	DUNCAN 3-7A1	NWNW-7-1S-1W	DUCHESNE	BLUEBELL	
60	4301331286	BAR F 2-5B1	SWSE-5-2S-1W	DUCHESNE	BLUEBELL	
61	4301331299	CORNABY 2-14A2	NENE-14-1S-2W	DUCHESNE	BLUEBELL	NW498
62	4301331317	MITCHELL 2-4B1	SESW-4-2S-1W	DUCHESNE	BLUEBELL	9662
63	4301331321	SMITH 2-9C5	SWSW-9-3S-5W	DUCHESNE	ALTAMONT	
64	4301331322	LORANGER 2-24A2	N/2NE-24-1S-2W	DUCHESNE	BLUEBELL	
65	4301331325	UTE 2-6B3	SWSW-6-2S-3W	DUCHESNE	ALTAMONT	1420H621858 / 9651
66	4301331326	MCELPRANG 2-30A1	SWSW-30-1S-1W	DUCHESNE	BLUEBELL	NW625
67	4301331327	SMITH 2-7C5	NESW-7-3S-5W	DUCHESNE	ALTAMONT	1420H622389
68	4301331328	SMITH 2-18C5	SWSE-18-3S-5W	DUCHESNE	ALTAMONT	1420H622392
69	4301331329	UTE 2-24A3	SWNW-24-1S-3W	DUCHESNE	BLUEBELL	1420H621761
70	4301331330	UTE 5-19A2	NWNW-19-1S-2W	DUCHESNE	BLUEBELL	1420H621751
71	4301331332	EDWARDS 3-10B1	SWSW-10-2S-1W	DUCHESNE	BLUEBELL	
72	4301331333	SUNDANCE 4-15A2	SWNE-15-1S-2W	DUCHESNE	BLUEBELL	
73	4301331334	LORANGER 6-22A2	SWSW-22-1S-2W	DUCHESNE	BLUEBELL	
74	4301331335	COX 2-36A2	NWNW-36-1S-2W	DUCHESNE	BLUEBELL	
75	4301331338	SMITH 2-6C5	SESW-6-3S-5W	DUCHESNE	ALTAMONT	1420H622388 / UTU70553
76	4301331341	FRESTON 2-7B1	SENE-7-2S-1W	DUCHESNE	BLUEBELL	1420H621970 / 9686
77	4301331356	PEARSON 2-11B2	SENE-11-2S-2W	DUCHESNE	BLUEBELL	
78	4301331378	CHAPMAN 2-4B2	SWNW-4-2S-2W	DUCHESNE	BLUEBELL	
79	4301331390	LAMB 2-16A2	NENE-16-1S-2W	DUCHESNE	BLUEBELL	
80	4301331393	LABRUM 2-23A2	SWSW-23-1S-2W	DUCHESNE	BLUEBELL	
81	4301331820	POWELL 2-16B1	NENE-16-2S-1W	DUCHESNE	BLUEBELL	

DEVON ENERGY PRODUCTION COMPANY, L.P. UTAH PROPERTIES

						LEASE NO./
	API NO.	WELL NAME & NO.	LOCATION	COUNTY	FIELD NAME	AGREEMENT NO.
82	4304730164	ROBERTSON UTE ST 1-12B1	SWNE-12-2S-1W	UNITAH	BLUEBELL	96101
83	4304730176	MAY UTE FEDERAL 1-13B1	NWSE-13-2S-1W	UNITAH	BLUEBELL	NW673
84	4304731981	COOK 1-26B1	SWSW-26-2S-1W	UNITAH	BLUEBELL	UTU68998
85	4304732178	CHRISTIANSEN 2-12B1	SWSE-12-2S-1W	UNITAH	BLUEBELL	96101
86	4304732351	BALLARD 2-15B1	SENE-15-2S-1W	UNITAH	BLUEBELL	
87	4304732744	RICH 2-13B1	NWNW-13-2S-1W	UNITAH	BLUEBELL	NW673
88	4301320255	SWD 4-11A2	NWNW-11-1S-2W	DUCHESNE	BLUEBELL	96107
89	4301330021	SWD 1-3A2	SESE-3-1S-2W	DUCHESNE	BLUEBELL	
90	430133 0346	SWD 2-28A2	NWSE-28-1S-2W	DUCHESNE	BLUEBELL	
91	4301330367	SWD 2-10B1	NWNW-10-2S-1W	DUCHESNE	BLUEBELL	
92	4301330389	SWD 2-26A2	NESW-26-1S-2W	DUCHESNE	BLUEBELL	
93	4301330388	SWD 2-17C5	SENE-17-3S-5W	DUCHESNE	BLUEBELL	

RECEIVED

APR 20 2000

DIVISION OF OIL, GAS AND MINING

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND		Lease Designation and Serial No. Fee
Use "APPLICATION FOR	Il or deepen or reentry to a different reservoir. PERMIT -" for such proposals	6. If Indian, Allottee or Tribe Name Ute Tribal
SUBMIT	IN TRIPLICATE	7. If unit or CA, Agreement Designation
1. Type of Well		NW537
X Oil Well Gas well Other		8. Well Name and No.
2. Name of Operator		Mark 2-25A2
Pennzoil Company		9. API Well No.
3. Address and Telephone No.		43-013-31232-00
P.O. Drawer 10 Roosevelt, U 4. Location of Well (Footage, Sec., T., R., M., or Survey Description		10. Field and Pool, or Exploratory Area Biuebeil-Wasatch
		11. County or Parish, State
670' FNL and 1798' FEL of Section 2	25, T1S, R2W	Duchesne, Utah
12 CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT, C	OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing repair	Water Shut-off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other Add new perfs, reperf & acidize	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
 Describe Proposed or Completed Operations (Clearly state all drilled, give subsurface locations and measured and true 	pertinent details, and give pertinent dates, including estimated date of starting any p e vertical depths for all markers and zones pertinent to this work)	roposed work. If well is directionally
	e vertical deputs for all markers and zones pertinent to this work)	
5/6/96 Milled out 7" Model DB	packer at 11,290' and tagged bottom at 13,200'.	DECEIVED
5/7/96 Perforated as follows:		
11105-11117' (12', 2	4 holes) - New zone	321 1111 0 2 1000 12/1
11628-11634' (6', 12	holes) - Reperf	JUL 0 9 1996
11840-11848 (8', 16	holes) - Reperf	
12892-12906 (14', 28	8 holes) - Reperf	DIV. OF OIL, GAS & MINING
5/9/96 Using packer and RBP a	acidized 12856-13058 with 6900 g 15% HCL. Atter	
and 12462-12826 but ha	ad communication with perfs above in both cases.	Acidized 12278 12826
13,500 g 15% HCL befo	re communication occurred.	Addized 12270-12020 Willi
$\sqrt{5/16/96}$ Ran production logs and	l left well flowing.	
14. I hereby certify that the foregoing is true and correct	1	
Signed Jess Dullnig Jess Gell	Petroleum Engineer	Date 8-Jul-96
(This space of Federal or State office use.)		
Approved by	Title	partha credit
Conditions of approval, if any:		9 Blas

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly to make to any department of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Department of Natural Resources DIVISION OF OIL, GAS AND MINING

	ICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
to dr horiz	frill new wells, significantly deepen existing wells below co contal laterals. Use APPLICATION FOR PERMIT TO DRILL	urrent bottom-hole depth, reenter plugged wells, or form for such proposals.	6. IF INDIAN, ALLOTEE OR TRIBE NAME: UTE TRIBAL
1. TYPE OF WELL	X GAS WELL OTHER		7. UNIT or CA AGREEMENT NAME: NW537
2. NAME OF OPERATOR DEVON ENERGY PRODUC	CTION COMPANY L D		8. WELL NAME and NUMBER: MARK 2-25A2
3. ADDRESS OF OPERATOR	THOR COMPANY, E.F.	PHONE NUMBER	9. API NUMBER:
P.O. BOX 290 NEOLA,	UT 84053	435-353-4121	43-013-31232-00 10. FIELD AND POOL, OR WILDCAT:
4. LOCATION OF WELL			BLUEBELL/WASATCH-LGR
FOOTAGES AT SURFACE: 670'	' FNL 1798' FEL		
QTR/QTR, SEC, TOWNSHIP, RANGE, MERII	1,00 122	IS, R2W, MPM	COUNTY: DUCHESNE STATE: UTAH
11 CHECK APPROPRIATE	BOXES TO INDICATE NATURE OF	E NOTICE DEPORT OF STUER	
TYPE OF SUBMISSION	TO THE HATORE OF		DATA
X NOTICE OF INTENT	X ACIDIZE	TYPE OF ACTION	F-0-1
(SUBMIT IN DUPLICATE)	ALTER CASING	DEEPEN	X REPERF CURRENT FORMATION
Approximate date work will start		FRACTURE TREATMENT	SIDETRACK TO REPAIR WELL
1-Jan-01	CLANGE TO DEFINE	NEW CONSTRUCTION	TEMPORARILY ABANDON
SUBSEQUENT REPORT	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
(Submit Original Form Only)	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE
Date of work completion:	CHANGE WELL NAME	PLUG BACK	WATER DIPOSAL
	CHANGE WELL STATUS	PRODUCTION(START/RESUME)	WATER SHUT OFF
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	
			OTHER
12. DESCRIBE PROPOSED OR COMPLETE Devon Energy Production Cor	CONVERT WELL TYPE	RECOMPLETE-DIFFERENT FORMATION	
Pull production equipment. TIH with a 6 1/8" mill to 12,1 Run and set an RBP at 12,078 Acidize the existing Wasatch particles the field and 1000 7/8" 1.3 Swab test for rate, oil cut, fluippull RBP and packer, run and Perforate the Wasatch interva Run and set a packer at 10,40 Acidize the perforations 10,53 Swab test for rate, oil cut, fluippull plug and packer Return well to production from	convert well type ED OPERATIONS. Clearly show all pertinent deta mpany L.P. proposes the following 00'. 8', test the RBP to 3500 psi, Set p perforations 11,105-12,054' (363 SG balls for diversion. d level, pH, etc set RBP at 11,080', test to 1000 I 10,536-11,040' (29 intervals, 1 00'. Fill and test the annulus to 10 36-11,040' with 6000 gals 150 He	recomplete-different formation ills including dates, depths, volumes, etc. to commence approximately Jacker at 11,000'. 17,747 holes) with 15,000 gals 1 psi. O3', 144 holes) using 4" casing 00 psi. CL with additives and 200 7/8"	n 1, 2001 15% HCL with standard additives for guns. 1.3.36 halls for diversion. PICE 4 2000
Pull production equipment. TIH with a 6 1/8" mill to 12,1 Run and set an RBP at 12,078 Acidize the existing Wasatch particles the field and 1000 7/8" 1.3 Swab test for rate, oil cut, fluippull RBP and packer, run and Perforate the Wasatch interva Run and set a packer at 10,40 Acidize the perforations 10,53 Swab test for rate, oil cut, fluippull plug and packer Return well to production from	convert well type ED OPERATIONS. Clearly show all pertinent deta mpany L.P. proposes the following 00'. 8', test the RBP to 3500 psi, Set proposes and set to 1000 psi, Set proposes are for at 11,105-12,054' (363) SG balls for diversion. d level, pH, etc set RBP at 11,080', test to 1000 psi, Set proposes are for a 11,080' psi, Set proposes are for a 11,080' psi, Set proposes are for a 10,536-11,040' (29 intervals, 100'. Fill and test the annulus to 100 psi, Set proposes are for a 11,040' psi, Set proposes are for a 10,536-11,040' psi, Set proposes are for a 11,040' psi, Set psi, S	psi. 03', 144 holes) using 4" casing 00 psi. CL with additives and 200 7/8"	n 1, 2001 15% HCL with standard additives for guns. 1.3.86 balls for diversion. PECEIVED DIVISION OF OIL, GAS AND MINING
Pull production equipment. TIH with a 6 1/8" mill to 12,1' Run and set an RBP at 12,078 Acidize the existing Wasatch particle the field and 1000 7/8" 1.3 Swab test for rate, oil cut, fluid Pull RBP and packer, run and Perforate the Wasatch interval Run and set a packer at 10,40 Acidize the perforations 10,53 Swab test for rate, oil cut, fluid Pull plug and packer Return well to production from Note: Top TGR3 is at 9420', to	convert well type ED OPERATIONS. Clearly show all pertinent deta mpany L.P. proposes the following 00'. 8', test the RBP to 3500 psi, Set proposes and set to 1000 psi, Set proposes are for at 11,105-12,054' (363) SG balls for diversion. d level, pH, etc set RBP at 11,080', test to 1000 psi, Set proposes are for a 11,080' psi, Set proposes are for a 11,080' psi, Set proposes are for a 10,536-11,040' (29 intervals, 100'. Fill and test the annulus to 100 psi, Set proposes are for a 11,040' psi, Set proposes are for a 10,536-11,040' psi, Set proposes are for a 11,040' psi, Set psi, S	recomplete-different formation iils including dates, depths, volumes, etc. to commence approximately Jacker at 11,000'. 17,747 holes) with 15,000 gals 1 psi. 18,03', 144 holes) using 4" casing 00 psi. 19 CL with additives and 200 7/8"	n 1, 2001 15% HCL with standard additives for guns. 1.3.86 balls for diversion. PECEIVED DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Kathleen Clarke **Executive Director** Lowell P. Braxton Division Director 801-538-7223 (TDD)

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax)

CONDITIONS OF APPROVAL TO PLUG AND ABANDON WELL

Well Name and Number:

Mark 2-25A2

API Number:

43-013-31232

Operator:

Devon Energy Production Company, L.P.

Type of Approval Requested:

Plug and abandon well

Reference Document:

Sundry notice dated 12/12/2000, received by

DOGM on 12/14/2000

Approval Conditions:

- 1. Upon completion of workover operations, the operator shall submit a complete subsequent report including an updated wellbore diagram.
- 2. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

R. Allen McKee Petroleum Engineer January 2, 2001

Date

Uran Duision of OIL GAS & MININ CONDITIONS OF Approx

RE: MARK 2-25A2 SEZTION 25, TIS, RZW. DUCHESUE COUNTY, UT

SUNDA NOTICE DATED 12/12/00

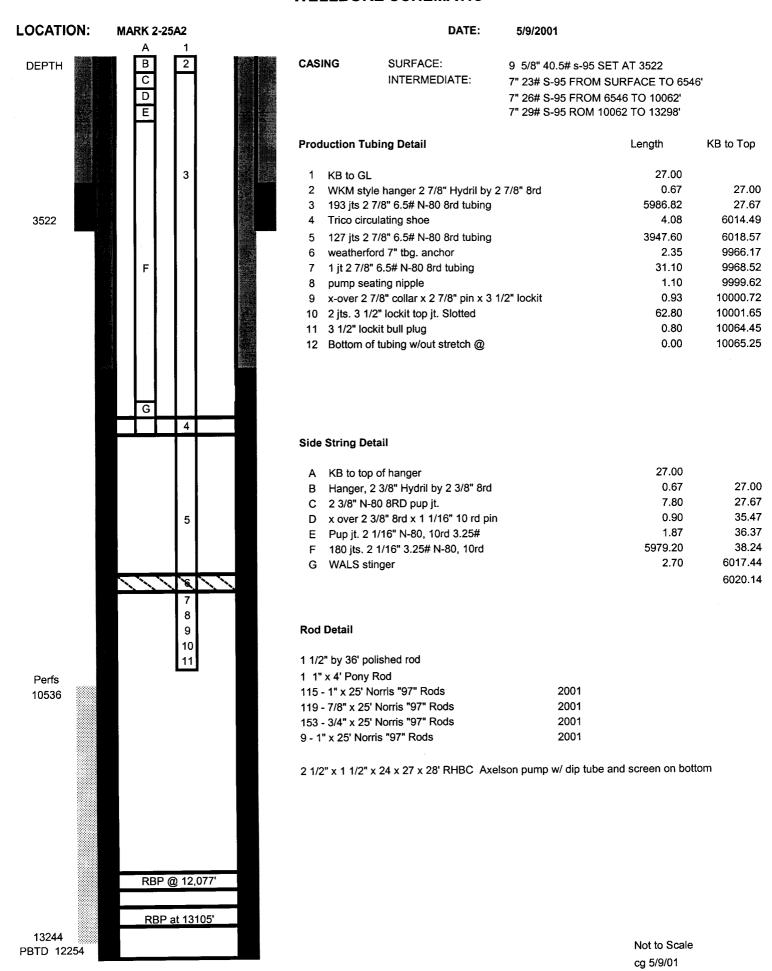
Operator SHALL SUBMIT A COMPLETE SUBSEQUENT

REPORT INCLUDIAL AN UPDATED WELLBORE

DIAGRAM.

STATE OF UTAH DEPARTMENT OF NA RAL RESOURCES and Serial Number Lease des. DIVISION OF OIL, GAS, AND MINING FEE 7. Indian Allottee or Tribe Name SUNDRY NOTICES AND REPORTS ON WELLS **UTE TRIBAL** Do not use this form for proposals to drift new wells, deepen existing well, or to reenter plugged and abands. Unit or Communitization Agreement Use APPLICATION FOR PERMIT - for such proposals NW537 9. Well Name and Number 1. Type of Well MARK #2-25A2 X Oil Well Other (specify) 10. API Well Number 2. Name of Operator 43-013-31232-00 Devon Energy Production Company, L.P. 11. Field and Pool, or Wildcat 3. Address of Operator BLUEBELL/WASATCH -LGR 435-353-5782 Neola, UT 84053 P.O. Box 290 5. Location of Well DUCHESNE 1798' FEL County : 670' FNL Footage Utah NW/NE SEC. 25, T1S, R2W, MPM QQ, Sec, T., R., N: CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA SUBSEQUENT REPORT NOTICE OF INTENT (Submit Original Form Only) (Submit in Duplicate) **New Construction** Abandonme * **New Construction** Abandonment Pull or Alter Casing Casing Repair **Pull or Alter Casing** Casing Repair Change of Plans Shoot or Acidize Recompletion Change of Plans Conversion to Injection Vent or Flare Conversion to Injection Shoot or Acidize Fracture Treat Water Shut-Off Vent or Flare Fracture Treat REPERF CURRENT FORMATION Multiple Completion Water Shut-Off Other 25-Apr-01 Date of Work Completio Other Report results of Multiple Completion and Recompletion to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form Approximate Date Work Will Start * Must be accompanied by a cement verification report. 13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface location and measured and true vertical depths for all markers and zones pertinent to this work.) 2/21/01 MOVE IN RIG UP PULLING UNIT PULL PRODUCTION EQUIPMENT CLEAN OUT W/6" OD MILL TO 12,254' RIH AND SET RBP @ 12077' AND SET PKR @ 11,014', ACIDIZE WASATCH PERFS 11,105' - 12,054' W/ 15,000 GALS 15% HCL AND STANDARD ADDITIVES AND 1000 7/8" BALL SEALERS FOR DIVERSION SWAB TEST FOR RATE POOH W/ PKR, LEFT RBP @ 12077' SET WEATHERFORD 7" ONE WAY BRIDGE PLUG @ 11,070' AND PERFORATE RED BED, LOWER GREEN RIVER PERFS 10536' TO 11040', 29 INTERVALS, 103 NET FEET, 144 HOLES, USING 4" CASING GUNS. RUN AND SET A PACKER @ 10,400', FILL AND TEST THE ANNULUS TO 1000 PSI. ACIDIZE THE PERFORATIONS 10,536-11,040' W/ 6000 GALS OF 15% HCL WITH ADDITIVES AND 200 7/8" BALL SEALERS 3/15/01 FLOW WELL TO TANK BATTERY, RIG UNIT DOWN 4/19/01 RIG UP RIG PULL PRODUCTION EQUIPMENT RUN PRODUCTION EQUIPMENT TO RETURN WELL TO ROD PUMP. RETURN WELL TO PRODUCTION FROM THE GROSS WASATCH PERFORATIONS 10,536' - 12,054' NOTE: TOP TGR3 IS AT 9420', TOP CP-70 AT 10,260' AND W-104 AT 10,525'. 14. I hereby certify that the foregoing is true and correct Civiling Title Production Foreman Craig Goodrich Name & Signature

WELLBORE SCHEMATIC



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

	DEL ARTIMENT OF TAX TOTAL REGOOD	NOLO			
	DIVISION OF OIL, GAS AND MI	NING		5. LEASE DESIGNATION AND SERIAL NUMBER	₹:
SUNDR	Y NOTICES AND REPORTS	S ON WEL	S	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
				UTE TRIBAL 7. UNIT OF CA AGREEMENT NAME:	
Do not use this form for proposals to drill drill horizontal	new wells, significantly deepen existing wells below cur laterals Use APPLICATION FOR PERMIT TO DRILL f	rent bottom-hole dept form for such proposal	n, reenter plugged wells, or to s.	NW537	
1. TYPE OF WELL OIL WELL	GAS WELL OTHER_			8. WELL NAME and NUMBER: MARK 2-25A2	
2. NAME OF OPERATOR:	HOTION COMPANY D			9. API NUMBER:	
DEVON ENERGY PROD 3. ADDRESS OF OPERATOR:	UCTION COMPANY L.P.		PHONE NUMBER:	4301331232 10. FIELD AND POOL, OR WILDCAT:	
	NEOLA STATE UT ZIP	84053	(435) 353-4121	BLUEBELL/WASATCH	
4. LOCATION OF WELL	TNI 47001 EE1			B. (
FOOTAGES AT SURFACE: 670' F	INL 1798 FEL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSHIP, RAI	NGE, MERIDIAN: NWNE 25 1S 2	W 6		STATE:	
				UTAH	
	ROPRIATE BOXES TO INDICAT			RT, OR OTHER DATA	
TYPE OF SUBMISSION	ACIDIZE		PE OF ACTION		
NOTICE OF INTENT (Submit in Duplicate)		DEEPEN	TOTAT	REPERFORATE CURRENT FORMATIO	N
Approximate date work will start:	ALTER CASING	FRACTURE		SIDETRACK TO REPAIR WELL	
	CASING REPAIR CHANGE TO PREVIOUS PLANS	NEW CONST		TEMPORARILY ABANDON	
7/1/2004		☐ OPERATOR		TUBING REPAIR	
SUBSEQUENT REPORT	CHANGE TUBING	PLUG AND A	BANDON	VENT OR FLARE	
(Submit Original Form Only)	CHANGE WELL STATUS	PLUG BACK		WATER DISPOSAL	
Date of work completion:	CHANGE WELL STATUS		N (START/RESUME)	WATER SHUT-OFF	
	COMMINGLE PRODUCING FORMATIONS CONVERT WELL TYPE		ON OF WELL SITE	OTHER: PULL ONEWAY & RBP	—
42 PEOPLE PROPERT OF A			E - DIFFERENT FORMATION		
12. DESCRIBE PROPOSED OR C	OMPLETED OPERATIONS. Clearly show all po	ertinent details incl	uding dates, depths, volume	es, etc.	
MIDITIMODICOVED DIC	DILL PRODUCTION FOLLOWS	UT DUUL TE	T DIO ANIONODO	DD100 T0 D1001110	
CUT OVER AND FISH O	PULL PRODUCTION EQUIPMEN NEWAY CIBP AT 11,070'. FISH V	VI. PULL 1E: VCT TS RRP	STRIG ANCHORS WITH BALLCATCE	PRIOR TO RIGGING UP. IER SET AT 12 077'	
ISOLATE AND ACIDIZE	WASATCH PERFORATIONS 105	526-10614' W	TH 2900 GALS 15	% HCL WITH ADDITIVES USIN	G
A HALLIBURTON PPI TO	OL				
FROM PERFORATIONS), PULL TUBING AND PPI TOOLS	S. RUN PRO	DUCTION EQUIPM	ENT TO PUMP FROM 11,200'	
TROM FERTORATIONS	10326 1013200,.				
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COPY SENT TO OPENA					
Date: 6/3/04	% %± ■				
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NAME (PLEASE PRINT) JOHN PU	LLEY	TITL 6	SR. OPERATION	S ENGINEER	
	Pulle.	TITLE	6/1/2004		_
SIGNATURE	money	DATE			<u></u> -
his space for State use only)	a who broy he state				
g ()	y utani nember of e men teoreman	~ ~;		JUN 0 2 2004	

(See Instructions on Reverse Side)

DIV. OF OIL. CLIS I MILLER

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE			
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE TRIBAL			
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	or to NW537			
1. TYPE OF WELL OIL WELL GAS WELL OTHER	8. WELL NAME and NUMBER: MARK 2-25A2			
2. NAME OF OPERATOR: DEVON ENERGY PRODUCTION COMPANY, LP	9. API NUMBER: 4301331232			
3. ADDRESS OF OPERATOR: P.O. BOX 290 CITY NEOLA STATE UT 219 84066 PHONE NUMBER: (435) 353-412	10. FIELD AND POOL, OR WILDCAT:			
4. LOCATION OF WELL	BEOLBELL/WASATCH			
FOOTAGES AT SURFACE: 670' FNL 1798' FEL	COUNTY: DUCHESNE			
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 25 1S 2W 6	STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, RE	EPORT, OR OTHER DATA			
TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN				
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION			
Approximate date work will start:	SIDETRACK TO REPAIR WELL			
CASING REPAIR NEW CONSTRUCTION CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TEMPORARILY ABANDON			
CHANGE TUBING PLUG AND ABANDON	TUBING REPAIR			
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	VENT OR FLARE			
(Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/PESUME)	WATER DISPOSAL			
Date of work completion:	WATER SHUT-OFF			
2/4/2005 CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMA	OTHER: PULL ONE-WAY & RBP			
MILL ONE-WAY CIBP @ 11,070', PUSH TO 12,065'. SET 7" C-PLUG @ 10.620', SET PKR @ 10,519', TEST TO 1000 PSI. ACIDIZE WASATCH PERFORATIONS 10,526 - 10,619' WITH 2898 GALS 15% HCL WITH 50 1.3 SG BALLS FOR DIVERSION, SWAB TEST UNTIL PH WAS 5. RELEASE & POOH W/ PKR & PLUG. RETURN TO PRODUCTION FROM PRODUCING PERFORATIONS 10,526 - 13,200'.				
PC: BLM VERNAL	RECEIVED			
	FEB 2 4 2005			
	DIV. OF OIL, GAS & MINING			
NAME (PLEASE PRINT) GEORGE GURR TITLE PRODUCTIO	N FOREMAN			
TITLE PRODUCTIO	IN I ONLIVIAN			
SIGNATURE DATE 2/23/2005				

(This space for State use only)

	STATE OF UTAH		FORM 9
1	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: FEE
SUNDR	RY NOTICES AND REPORTS O	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MARK 2-25A2
2. NAME OF OPERATOR: DEVON ENERGY PROD CO L	P		9. API NUMBER: 43013312320000
3. ADDRESS OF OPERATOR: P.O. Box 290 8345 North 5	125 West, Neola, UT, 84053	PHONE NUMBER: 405 228-4248 Ext	9. FIELD and POOL or WILDCAT: BLUEBELL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0670 FNL 1798 FEL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNE Section:	HIP, RANGE, MERIDIAN: 25 Township: 01.0S Range: 02.0W Meric	lian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT Approximate date work will start: 8/28/2013 SUBSEQUENT REPORT Date of Work Completion: SPUD REPORT Date of Spud: DRILLING REPORT Report Date:	COMPLETED OPERATIONS CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all	□ ALTER CASING □ CHANGE TUBING □ COMMINGLE PRODUCING FORMATIONS □ FRACTURE TREAT □ PLUG AND ABANDON □ RECLAMATION OF WELL SITE □ SIDETRACK TO REPAIR WELL □ VENT OR FLARE □ SI TA STATUS EXTENSION ✓ OTHER	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Recompletion
Devon Energy P permission to rec	Production Co., L.P. (Devon) re omplete the subject well. Ple completion procedure. Thank	espectfully requests ase find attached the	Approved by the Utah Division of Oil, Gas and Mining Date: September 23, 2013 By: Dad K. Quid
NAME (PLEASE PRINT) Julie Patrick	PHONE NUMBE 405 228-8684	R TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 8/19/2013	

Mark 2-25A2, RECOMPLETION

DEVON ENERGY PRODUCTION COMPANY RECOMPLETION PROCEDURE

MARK 2-25A2 SECTION 25, T1S, R2W BLUEBELL/ALTAMONT FIELD DUCHESNE COUNTY, UTAH

OBJECTIVE:

Add additional intervals in the Lower Green River and acidize. Comingle and put well back on pump.

JUSTIFICATION:

The Mark 2-25A2 was originally completed in the Wasatch in 1989 from 11,378'-13,244'. Additional perforations in the Wasatch were added in 1996 from 11,105'-12,906', and in 2001 from 10,526'-11,040'. The well is currently producing ~7 BOPD, ~19 MCFPD, and ~29 BWPD. The Lower Green River has not been perforated to date. Offsets to this well have produced in excess of 100 BOPD from the LGR.

The existing interval will be temporarily isolated with a bridge plug and the LGR perforated in selected intervals from 9,426'-10,500'. This interval will be acidized, tested and comingled with the current producing intervals.

WELL DATA

API No. 43-013-31232

TD: 13,298' PBTD: 13,275'

Casing: 9 5/8" 40.5# S-95 set at 3522'.

7" 23# S-95 from surface to 6546'
7" 26# S-95 from 6546 to 10,062'
7" 29# S-95 from 10,062 to 13298'

Other: Squeeze perfs at 6575, 8420, 9100 and 10460'. All tested to 2000

psi in 9/98.

Bond Log: Before all the squeezes, no bond log in file after squeezes.

TOC at 10,500' 20' below DV at 10480'

Mark 2-25A2, RECOMPLETION

10500-12170'	Good
12170-12550'	Fair to poor
12550-TD	Good

Notes: In 1989 pumped 371 sks from squeeze perfs at 10,460 to perfs at 9100'. Pumped 538 sks from perfs at 8420 to perfs at 6575'. Cement top should be at 6575', with gaps between 8420 and 9100' and 10460-10500'.

Perforations:

11,378'-13,244', 55 int., 1,002', 2,059 holes	09/89
11,105'-11,117', 12', 24 holes	05/96
11,628'-11,634', 6', 12 holes	05/96
11,840'-11,848', 8', 16 holes	05/96
12,892'-12,906', 14', 28 holes	05/96
10,526'-11040', 29 int., 103', 144 holes	03/01

WELL HISTORY

08-11-89	Perf 4 squeeze holes at 10,460' and 4 squeeze holes at 6575'. Could not break circulation between intervals.
08-12-89	Perf 4 squeeze holes at 8420'. Could not break circulation between 8420' and 10,460'.
08-18-89	Perf 4 squeeze holes at 9100'. Established circulation between 9100' and 10,460'.
08-22-89	Cemented outside of 7" csg between 9100' and 10,460' with 371 sxs.
08-24-89	Cemented squeeze holes at 9100' with 200 sxs.
08-26-89	Cemented outside of 7" csg between 6575' and 8420' with 538 sxs.
08-31-89	Cemented squeeze holes at 6575' with 200 sxs.
09-09-89	Finished drilling out all cement and retainers down to 13,285'. Tested all 7" csg to 2000 psi, held OK.
09-25-89	Perf 11,378-13,244 (55 intervals, 1002 net ft, 2059 holes) with tubing conveyed system.
09-27-89	Found tubing parted seven joints below surface.
11-28-89	Finished fishing all tubing and guns out of the well.

Mark 2-25A2, RECOMPLETION

12-01-89	Set 7" Baker Model D packer at 1	11,290'.
12-12-89	Alternated 15,000 gal stages of a	000 g 7.5% HCL with 1500 SCF CO2. Icid with four diversion stages of 3000 D lbs each of rock salt, BAF, and wax e each diversion stage.
01-01-90	Ran a production log with the we MCFGPD.	II flowing 375 BOPD, 312 BWPD and 800
	Major oil and gas Water production	11610-11630' 11480-11516'
02-21-90	Installed rod pumping system.	
06-19-91	Tagged fill with slickline at 13,156	3 '.
06-20-91	Lowered rod pump from 8950' to	9850'.
06-04-93	Lowered rod pump from 9850' to	10,900'.
05-06-96	Milled out 7" Model DB packer at	11,290' and tagged bottom at 13,200'
05-07-96	Perforated as follows: 11105-11117' (12', 24 holes) - Ne 11628-11634' (6', 12 holes) - Rep 11840-11848 (8', 16 holes) - Rep 12892-12906 (14', 28 holes) – Re	perf perf
	Total 40' with 80 holes	
05-09-96	Using packer and RBP attempted	d to acidize in stages.
	Set the packer at 12841', RBP at 13058' with 6900 gals 15% HCL,	13,072', acidized perforations 12856-420 balls. Moderate ball action.
	Moved RBP to 12841', packer to 12700-12826', communicated to	12690'. Attempted to acidize perfs perfs at 12680'.

Moved packer to 12446', attempted to acidize, communicated to perfs at 12430'.

Mark 2-25A2, RECOMPLETION

Moved packer to 12,260' and acidized perfs 12278-12826' with 17,000 gals 15% HCL, communicated to annulus with 13,000 gals away.

Unable to pull packer after the last stage. Circulated 500 bbls water down tubing and up annulus to free the packer.

- 05-10-96 Pulled RBP at 12841', well started to flow.
- O5-11-96 Circulate the hole with 525 bbls 10 ppg brine water. TOH with tubing and retrieving head, left RBP at 13105'. Ran a MSOT Arrowpak packer with a glass disk in the tailpipe, set the packer at 10,500'.
- O5-16-96 Ran production logs across the perforations 11,105-13,112' with the well flowing at the rate of 442 BOPD, 25 BWPD and 400 MCFGPD.

12278-12290	Possible water entry.
12892-12906	95 % of the oil and gas
12920-12944	3 % of the oil and gas
13022-13058	2 % of the oil and gas

- 07-17-96 Pulled the MSOT Arrowpak packer at 10,500'.
- 07-20-96 Put back on pump after flowing
- 02-24-01 TIH with mill on tubing, tag at 12254'
- 02-26-01 Set RBP at 12077', swab test perforations 11105-12054', no entry
- 03-02-01 Acidized perforations 11105-12054 with 15000 gals 15% HCL with 1000 balls. Observed very little ball action.
- 03-05-01 Swab test very little entry.
- 03-06-01 Attempt to release RBP at 12077', unable to release. Left RBP in the hole.
- 03-07-01 Perforate 10526 11040', 29 intervals, 103', 144 holes. Run and set a one-way CIBP at 11070'.
- 03-08-01 Swab tests perfs 10526-11040', 5 BPH, 50% cut
- 03-09-01 Acidize perforations 10056-11040 with 6104 gals 15% HCL with 200 balls. Very little ball action.
- 03-14-01 Nipple up wellhead, well flowing 60 BOPD, 70 BWPD and 140 MCFPD

Mark 2-25A2, RECOMPLETION

04-24-01	Put on rod pump.
01-16-05	Wash over CIBP at 11070', push to 12065'
01-22-05	Recovered remains of plug on fifth run.
01-25-05	TIH, cleaned out ball catcher on top of RBP at 12077'.
01-26-05	Released and pulled RBP at 12077'.
01-28-05	Ran Halliburton PPI tool, would not pressure test. TOH.
01-29-05	Ran plug and packer isolated perfs 10526-10614', acidized with 2900 gals 15% HCL and 50 balls for diversion.
02-02-05	Pulled plug and packer.
02-04-05	Returned to production from perforations 10526-13200' with pump at 11193'.

PROCEDURE:

- 1. RDMO pumping unit.
- 2. MIRU workover rig with pump and tank. Test the dead men prior to moving in and rigging up.
- 3. POOH with rods & pump, 2-1/16" tubing side string, 2-7/8" production tubing.
- 4. RU Electric Line and TIH with a 7" CIBP and set at ~10,515', dump 10' of cement on top. Load casing and pressure test casing to 1,000 psi.
- 5. Rig up full lubricator and grease for pressure control. Perforate LGR 9426'-10500' overall as per perforation detail. RDMO wireline.
- 6. TIH with 2-7/8" tubing and a 7" treating packer and set at $\sim 9,300$ '.
- 7. Swab test the interval prior to acidizing to determine the rate, oil cut and fluid level. Catch an oil sample for compatibility testing with the acid.
- 8. Acidize the interval with 10,000 gals of 15% HCl with standard additives and 400 bio-ball sealers for diversion.

Mark 2-25A2, RECOMPLETION

9. Swab test to determine rate, cut and fluid level. Swab until the pH is five or greater.

10. Run production equipment and put well on pump.

Division of Oil, Gas and Mining OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)				Operator Na	me Chan	ge/Merger		
The operator of the well(s) listed below has change	ged, o	effectiv	/e:			8/29/2014		
FROM: (Old Operator): DEVON ENERGY PRODUCTION COMPANY L 333 WEST SHERIDAN AVENUE	P. N	N1275		TO: (New Op LINN OPERAT 1999 BROADV	TING INC			
OKLAHOMA CITY OK 73102-5015				DENVER CO		3700		
				303-999-4275				
CA No.				Unit:	N/A			
	SEC	TWN	N RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List			<u> </u>		L		<u></u>	
OPERATOR CHANGES DOCUMENT. Enter date after each listed item is completed								
1. (R649-8-10) Sundry or legal documentation wa				-		9/16/2014	•	
2. (R649-8-10) Sundry or legal documentation wa				=		9/16/2014		10/0/0014
3. The new company was checked on the Departs4a. Is the new operator registered in the State of U		oi Coi	mmerce	Business Numb	-	9031632-0143		10/8/2014
5a. (R649-9-2)Waste Management Plan has been re		ed on:		Yes		7031032-0143	•	
5b. Inspections of LA PA state/fee well sites compl5c. Reports current for Production/Disposition & S				N/A 10/8/2014	- -			
6. Federal and Indian Lease Wells: The BL					merger, na	me change,		
or operator change for all wells listed on Federa	al or	Indian	leases o	on:	BLM	NOT YET	BIA	NOT YET
7. Federal and Indian Units:	_							
The BLM or BIA has approved the successor		-				<u>N/A</u>	-	
8. Federal and Indian Communization Ag			•	•				
The BLM or BIA has approved the operator of					6 T	N/A		
9. Underground Injection Control ("UIC"			-	_			-	
Inject, for the enhanced/secondary recovery un DATA ENTRY:	ıı/pro	ојест то	or the w	ater disposai wei	ii(s) iistea o	n:	9/24/2014	
1. Changes entered in the Oil and Gas Database				10/8/2014	_			
 Changes have been entered on the Monthly Or Bond information entered in RBDMS on: 	erat	or Cha	ange Sp			10/8/2014	•	
3. Bond information entered in RBDMS on:4. Fee/State wells attached to bond in RBDMS on				10/8/2014 10/8/2014	•			
5. Injection Projects to new operator in RBDMS of				N/A	•			
6. Receipt of Acceptance of Drilling Procedures for	or Al	PD/Nev	w on:		-	10/8/2014	_	
7. Surface Agreement Sundry from NEW operator	on F	ee Sur	face we	lls received on:		9/16/2014	•	
BOND VERIFICATION:								
 Federal well(s) covered by Bond Number: Indian well(s) covered by Bond Number: 				NMB000501	•			
Indian well(s) covered by Bond Number:3a. (R649-3-1) The NEW operator of any state/fe	e wel	ll(s) lis	ted cov	NMB000501 ered by Bond Nu	umher	LPM9149893		
3b. The FORMER operator has requested a release					N/A	LI 1017147075		
LEASE INTEREST OWNER NOTIFIC			, nom t	den bond on.	11/11	-		
4. (R649-2-10) The NEW operator of the fee wells			ontacted	l and informed b	y a letter fro	om the Division		
of their responsibility to notify all interest owner					10/8/2014			
COMMENTS:								

Devon Energy Production Company, L.P. N1275 to Linn Operating, Inc N4115 Effective 8/29/2014

Well Name	Section	Township	Range AP		Entity	Mineral	Well	Well
				Number		Lease	Type	Status
SWD 4-11A2	11	010S	020W	4301320255	99990	Fee	WD	A
VIRGIL MECHAM 1-11A2	11	010S	020W	4301330009	5760	Fee	WD	Α
1-3A2	3	010S	020W	4301330021	99990	Fee	WD	Α
BLUEBELL 2-28A2	28	010S	020W	4301330346	99990	Fee	WD	A
SALERATUS 2-17C5	17	030S	050W	4301330388	99990	Fee	WD	A
CENTRAL BLUEBELL 2-26A2	26	010S	020W	4301330389	99990	Fee	WD	Α
BALLARD 2-15B1	15	020S	010W	4304732351	11476	Fee	WD	Α
GALLOWAY #3-14B2	14	020S	020W	4301351741		Fee	OW	APD
GALLOWAY #3-12B2	12	020S	020W	4301351742		Fee	OW	APD
GALLOWAY 4-14B2	14	020S	020W	4301351818		Fee	ow	APD
MORRIS #3-8B1	8	020S	010W	4301351836		State	OW	APD
FRITZ #3-24A2	24	010S	020W	4301351837		Fee	ow	APD
GALLOWAY #2-14B2	14	020S	020W	4301351739	19044	Fee	OW	DRL
EMERALD 2-32A1	32	010S	010W	4301350059	17980	Fee	OW	OPS
CLYDE MURRAY 1-2A2	2	010S	020W	4301330005	5876	Fee	OW	P
VICTOR C BROWN 1-4A2	4	010S	020W	4301330011	5780	Fee	OW.	P
DOUG BROWN 2-4A2	4	010S	020W	4301330017	5840	Fee	ow	P
L BOREN U 3-15A2	15	010S	020W	4301330017	5755	Fee	OW	P
LAMICQ-URTY U 3-17A2	17	010S	020W	4301330099	5745	Fee	ow	P
L BOREN U 5-22A2	22	010S	020W	4301330099	5900	Fee	ow	P
L BOREN U 4-23A2	23	010S	020W	4301330107	5905	Fee	ow	P
TOMLINSON FED 1-25A2	25	010S	020W	4301330113	5535	Federal	OW	P
WOODWARD 1-21A2	21	010S	020W	4301330120	5665	Fee	OW	P
and the second s	20	0105	020W	4301330130	5400	Fee	GW	P
LAMICQ 1-20A2 L RBRTSN ST 1-1B2		010S 020S			+		OW	P
	1		020W	4301330200	5410	State		P
SMITH ALBERT 1-8C5	8	030S	050W	4301330245	5490	Fee	OW_	
FRESTON ST 1-8B1	8	020S	010W	4301330294	5345	Fee	OW	P
GEORGE MURRAY 1-16B1	16	020S	010W	4301330297	5950	Fee	OW_	P
LAMICQ-URTY U 4-5A2	5	010S	020W	4301330347	5845	Fee	OW	P
H G COLTHARP 1-15B1	15	020S	010W	4301330359	5945	Fee	OW	P
STATE 3-18A1	18	010S	010W	4301330369	5810	Fee	OW	P
LAMICQ 2-6B1	6	020S	010W	4301330809	2301	Fee	OW	P
DILLMAN 2-28A2	28	010S	020W	4301330821	5666	Fee	OW	P
HAMBLIN 2-26-A2	26	010S	020W	4301330903		Fee	OW	P
JOHN 2-3-B2	3	020S	020W	4301330975	5387	Fee	OW	P
LAMICQ-ROBERTSON ST 2-1B2	1	020S	020W	4301330995	5412	Fee	OW	P
UTE TRIBAL 2-7A2	7	010S	020W	4301331009	5836	Indian	ow	P
HATCH 2-3B1	3	020S	010W	4301331147	10615	Fee	OW	P
NORLING 2-9B1	9	020S	010W	4301331151	10616	Fee	OW	P
SHAW 2-27A2	27	010S	020W	4301331184	10753	Fee	OW_	P
LAMICQ-URRITY 4-17A2	17	010S	020W	4301331190	10764	Fee	OW	P
LAMICQ 2-20A2	20	010S	020W	4301331191	10794	Fee	OW_	P
FRESTON 2-8B1	8	020S	010W	4301331203	10851	Fee	OW	P
WISSE 3-35A2	35	010S	020W	4301331215	10925	Fee	ow	P
MECCA 2-8A2	8	010S	020W	4301331231	10981	Fee	OW	P
SWYKES 2-21A2	21	010S	020W	4301331235	10998	Fee	OW	P
SHERMAN 2-12B2	12	020S	020W	4301331238	11009	Fee	OW	P
DUNCAN 4-2A2	2	010S	020W	4301331276	11258	Fee	GW	P
HAMBLIN 3-9A2	9	010S	020W	4301331278	11094	Fee	GW	P
BAR-F 2-5B1	5	020S	010W	4301331286	11113	Fee	ow	P
SMITH 2-9C5	9	030S	050W	4301331321	11245	Fee	ow	P
LORANGER 2-24A2	24	010S	020W	4301331322	11244	Fee	ow	P
UTE 2-6B3	6	020S	030W	4301331325	11446	Indian	ow	P
MCELPRANG 2-30A1	30	010S	010W	4301331326		Fee	ow	P

Devon Energy Production Company, L.P. N1275 to Linn Operating, Inc N4115 Effective 8/29/2014

Well Name	Section	Township	Range A	P API	Entity	Mineral	Well	Well
		-		Number		Lease	Type	Status
SMITH 2-7C5	7	030S	050W	4301331327	11324	Indian	OW	P
SMITH 2-18C5	18	030S	050W	4301331328	11336	Indian	OW	P
UTE 2-24A3	24	010S	030W	4301331329	11339	Indian	OW	P
UTE 5-19A2	19	010S	020W	4301331330	11277	Indian	OW	P
EDWARDS 3-10B1	10	020S	010W	4301331332	11264	Fee	OW	P
SUNDANCE 4-15A2	15	010S	020W	4301331333	11269	Fee	ow	P
LORANGER 6-22A2	22	0108	020W	4301331334	11335	Fee	OW	P
COX 2-36A2	36	010S	020W	4301331335	11330	Fee	OW	P
SMITH 2-6C5	6	030S	050W	4301331338	11367	Indian	OW	P
FRESTON 2-7B1	7	020S	010W	4301331341	11338	Fee	OW	P
PEARSON 2-11B2	11	020S	020W	4301331356	11359	Fee	OW	P
CHAPMAN 2-4B2	4	020S	020W	4301331378	11485	Fee	OW	P
LAMB 2-16A2	16	010S	020W	4301331390	11487	Fee	OW	P
LABRUM 2-23A2	23	010S	020W	4301331393	11514	Fee	ow	P
POWELL 2-16B1	16	020S	010W	4301331820	12342	Fee	OW	P
BOWMAN 5-5A2	5	010S	020W	4301332202	13043	Fee	OW	P
BOREN 4-9A2	9	010S	020W	4301332203	13079	Fee	OW	P
BLANCHARD 3-10A2	10	010S	020W	4301332223	13149	Fee	OW	P
SQUIRES 3-8A2	8	010S	020W	4301332227	13176	Fee	OW	P
BROWN 3-4A2	4	010S	020W	4301332684	14673	Fee	OW	P
GALLOWAY 3-11B2	11	020S	020W	4301334304	18527	Fee	ow	P
OWL AND THE HAWK 3-9C5	9	030S	050W	4301351214	18649	Fee	OW	P
Bingham #3-4B1	4	020S	010W	4301351464	18825	Fee	ow	P
RED MOUNTAIN 3-5B1	5	020S	010W	4301351632	18954	Fee	OW	P
MECHAM #3-1B2	1	020S	020W	4301351844	19082	State	OW	P
MIKE AND SHELLEY #3-4B2	4	020S	020W	4301351845	19083	Fee	ow	P
RBRTSN UTE ST 1-12B1	12	020S	010W	4304730164	5475	Fee	OW	P
MAY UTE FED 1-13B1	13	020S	010W	4304730176	5435	Fee	OW	P
COOK 1-26B1	26	020S	010W	4304731981	11212	Fee	OW	P
CHRISTIANSEN 2-12B1	12	020S	010W	4304732178	11350	Fee	OW	P
RICH 2-13B1	13	020S	010W	4304732744	12046	Fee	OW	P
THOMAS 4-10B1	10	020S	010W	4304734080	13284	Fee	OW	P
HAMAKER 3-12B1	12	020S	010W	4304752294	18650	Fee	OW	P
BETTS 2-26B1	26	020S	010W	4304752435	18698	Fee	OW	P
STATE 1-10A2 (3-10C)	10	010S	020W		5860	State	GW	S
L BOREN U 6-16A2	16	010S	020W	4301330123	5750	Fee	ow	S
UTE TRIBAL 1-6B3	6	020S	030W	4301330136	5705	Indian	ow	S
MAUREL TAYLOR FEE 1-36A2	36	010S	020W	4301330143	5525	Fee	OW	S
CAMPBELL UTE ST 1-7B1	7	020S	010W	4301330236	5295	Indian	ow	S
D L GALLOWAY 1-14B2	14	020S	020W	4301330564	5965	Fee	OW	S
MARK 2-25A2	25	010S	020W	4301331232	10986	Fee	OW	S
MITCHELL 2-4B1	4	020S	010W	4301331317	11231	Fee	OW	S

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS 7. UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 8 WELL NAME and NUMBER TYPE OF WELL OTHER See Attached Well List GAS WELL OIL WELL See Attached Well List 2. NAME OF OPERATOR: API NUMBER: LINN OPERATING, INC PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: 3. ADDRESS OF OPERATOR ZIP 80202 Denver 1999 Broadway, Suite 3700 STATE CO (303) 999-4275 Bluebell/Altamont 4. LOCATION OF WELL COUNTY: Duchsene/Uintah FOOTAGES AT SURFACE: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE DEEPEN REPERFORATE CURRENT FORMATION 1 NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL Approximate date work will start: CASING REPAIR **NEW CONSTRUCTION** TEMPORARILY ABANDON OPERATOR CHANGE CHANGE TO PREVIOUS PLANS TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLARE SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME) WATER SHUT-OFF Date of work completion: COMMINGLE PRODUCING FORMATIONS OTHER: CHANGE OF RECLAMATION OF WELL SITE **OPERATOR** CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Effective 08/29/2014, Change of Operator from Devon Energy Production Company, LP, to Linn Operating, Inc. is responsible under the terms and conditions of the leases for operations conducted on the leased lands or a portion thereof under their blanket state bond number LPM9149893. Attached is a list of wells that are associated with this Change of Operator. Devon Energy Production Company, LP N1375 333 West Sheridan Avenue Oklahoma City, OK 73102-5015 John D Raines SEP 16 2014 Vice President DIV OF OIL GAS & MINING Russell des Cognets II Asset Manager NAME (PLEASE PRINT) 9/8/14 SIGNATURE (This space for State us

OCT 08 2014

DIV. OIL GAS & MINING

(See Instructions on Reverse Side)

OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	
OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE	

Field

BLUEBELL ALTAMONT

State

UT

County

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

DUCHESNE

Devon Energy Production Company, LP Exisiting Well List for State/Fee/Indian Leases

Lease Type

FEE

STATE

Well Type

OIL

Producing Status

Producing

Producing

Producing

Producing

Producing

Producing

Producing

Producing

Producing

Producing

Producing

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API#

430133128600

430135146400

430133222300

430133003500

430133119200

430133008600

430133011500

430133220300

430133010700

430133012300

430133220200

430133001700

430133001100

430133268400

430133023600

430133137800

430133000500

430133035900 430133129900

430133133500

430133082100

430133127600

430133133200

430133029400

430133134100

430133120300

430133056400

430133430400

430133090300

430133127800

430133114700

430133097500

430133139300

430133139000

430133020000

Well Name

BAR F 2-5B1

BINGHAM 3-4B1

*BOREN 1-14A2-

BOREN 3-11A2

BOREN 3-15A2

BOREN 4-23A2

BOREN 4-9A2

BOREN 5-22A2

BOREN 6-16A2

BROWN 3-4A2

CHAPMAN 2-4B2

COLTHARP 1-15B1

DILLMAN 2-28A2

EDWARDS 3-10B1

FRESTON STATE 1-8B1

DUNCAN 4-2A2

FRESTON 2-7B1

FRESTON 2-8B1

GALLOWAY 1-14B2

GALLOWAY 3-11B2

HAMBLIN 2-26A2

HAMBLIN 3-9A2

LABRUM 2-23A2

LAMICQ ROBERTSON 1-1B2

HATCH 2-3B1

LAMB 2 16A2

JOHN 2-3B2

COX 2-36A2

BOWMAN 5-5A2

BROWN DOUG 2-4A2

BROWN VICTOR C 1-4A2

CAMPBELL UTE ST 1-7B1

CLYDE MURRAY 1-2A2

CORNABY 2-14A2 (RECOMP)

BLANCHARD 3-10A2

Legal Location

005-002S-001W

004-002S-001W

010-001S-002W

014-001S-002W

011-001S-002W

015-001S-002W

023-001S-002W

009-001S-002W

022-001S-002W

016-001S-002W

005-001S-002W

004-001S-002W

004-001S-002W

004-001S-002W

007-002S-001W

004-002S-002W

002-001S-002W

015-002S-001W

014-001S-002W

036-001S-002W

028-001S-002W

002-001S-002W

010-002S-001W

008-002S-001W

007-002S-001W

008-002S-001W

014-002S-002W

011-002S-002W

026-001S-002W

009-001S-002W

003-002S-001W

003-002S-002W

023-001S-002W

016-001S-002W

001-002S-002W

GAS & MINING 2014 SEP

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SWYKES 2 21A2	430133123500	021-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
TAYLOR MAUREL FEE 1-36A2	430133014300	036-001S-002W	Shut-In	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
TOMLINSON 1 25A2	430133012000	025-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE TRIBAL 2-7A2	430133100900	007-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE TRIBAL 5-19A2	430133133000	019-001S-002W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 1-6B3	430133013600	006-002S-003W	Shut-In	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 2-24A3	430133132900	024-001S-003W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
UTE 2-6B3	430133132500	006-002S-003W	Producing	OIL	INDIAN	BLUEBELL ALTAMONT	UT	DUCHESNE
WISSE 3-35A2	430133121500	035-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
WOODWARD 1-21A2	430133013000	021-001S-002W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	DUCHESNE
BALLARD 2-15B1 SWD	430473235100	015-002S-001W	Injecting	SWD	FEE	BLUEBELL ALTAMONT	UT	UINTAH
BETTS 2-26B1	430475243500	26-2S-1W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
CHRISTENSEN 2-12B1	430473217800	012-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
COOK 1-26B1	430473198100	026-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
HAMAKER 3-12B1	430475229400	12-2S-1W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
MAY UTE FED 1-13B1	430473017600	013-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
RICH 2-13B1	430473274400	013-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
ROBERTSON UTE STATE 1-12B1	430473016400	012-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH
THOMAS 4-10B1	430473408000	010-002S-001W	Producing	OIL	FEE	BLUEBELL ALTAMONT	UT	UINTAH

RECEIVED

SEP **16** 2014

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES

	 ~

	DIVISION OF OIL, GAS AND	MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Well List
SUNDR	Y NOTICES AND REPOR	RTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill drill horizontal	I new wells, significantly deepen existing wells below laterals. Use APPLICATION FOR PERMIT TO DF	w current bottom-hole depth, reenter plugged wells, or to RILL form for such proposals.	7. UNIT or CA AGREEMENT NAME:
TYPE OF WELL OIL WELL	GAS WELL OTHE	See Attached Well List	8. WELL NAME and NUMBER: See Attached Well List
2. NAME OF OPERATOR:			9. API NUMBER:
LINN OPERATING, INC		PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:
1999 Broadway, Suite 3700	TY Denver STATE CO		Bluebell/Altamont
LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: Duchsene
QTR/QTR, SECTION, TOWNSHIP, RA	NGE, MERIDIAN:	1 1000 100	STATE: UTAH
CHECK APP	PROPRIATE BOXES TO INDIC	CATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	ACIDIZE ALTER CASING CASING REPAIR CHANGE TO PREVIOUS PLANS CHANGE TUBING CHANGE WELL NAME CHANGE WELL STATUS COMMINGLE PRODUCING FORMATIC	DEEPEN FRACTURE TREAT NEW CONSTRUCTION OPERATOR CHANGE PLUG AND ABANDON PLUG BACK PRODUCTION (START/RESUME) ONS RECLAMATION OF WELL SITE RECOMPLETE - DIFFERENT FORMATION	REPERFORATE CURRENT FORMATION SIDETRACK TO REPAIR WELL TEMPORARILY ABANDON TUBING REPAIR VENT OR FLARE WATER DISPOSAL WATER SHUT-OFF OTHER: CHANGE OF OPERATOR
2. DESCRIBE PROPOSED OR C	OMPLETED OPERATIONS. Clearly show	all pertinent details including dates, depths, volu	mes, etc.
The state of the s	and of Operator from Doven	Energy Production Company, LP, to	Linn Operating, Inc. is responsib
Effective 08/29/2014, Chaunder the terms and cond	ditions of the leases for operation	ons conducted on the leased lands	or a portion thereof under their
Effective 08/29/2014, Chaunder the terms and conditional blanket state bond number	ditions of the leases for operation of the LPM9149893 .	ons conducted on the leased lands) that are associated with this Char	
Effective 08/29/2014, Chaunder the terms and conditional blanket state bond number Attached is a list of Application 333 West Sheridan Aven Oklahoma City, OK 7310. John D. Raines	ditions of the leases for operations of the leases for operations for Permit to Drill (APD) n Company, LP ue		
Effective 08/29/2014, Chaunder the terms and conditional blanket state bond number	ditions of the leases for operations of the leases for operations for Permit to Drill (APD) in Company, LP ue 2-5015		

OCT 0 8 2014

(See Instructions on Reverse Side)

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(5/2000)

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING	5 LEASE DESIGNATION AND SERIAL NUMBER:							
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:							
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	7. UNIT or CA AGREEMENT NAME:							
1. TYPE OF WELL OIL WELL OIL GAS WELL OTHER	8. WELL NAME and NUMBER: MISC.							
2. NAME OF OPERATOR:	9. API NUMBER:							
LINN OPERATING, INC. 3. ADDRESS OF OPERATOR: IPHONE NUMBER:	40 37/2 00/2 00/2 00/2							
1999 Broadway, Ste #3700 GHY Denver STATE CO AR 80202 (303) 999-4016	10. FIELD AND POOL, OR WILDCAT: Bluebell							
4. LOCATION OF WELL FOOTAGES AT SURFACE:	COUNTY: UINTAH							
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 14 1S 2W	STATE: UTAH							
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA							
TYPE OF SUBMISSION TYPE OF ACTION								
NOTICE OF INTENT	REPERFORATE CURRENT FORMATION							
(Submit in Duplicate) ALTER CASING FRACTURE TREAT	SIDETRACK TO REPAIR WELL							
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON							
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	U TUBING REPAIR							
CHANGE TUBING PLUG AND ABANDON SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	VENT OR FLARE							
(Submit Original Form Only)	WATER DISPOSAL							
Date of work completion: CHANGE WELL STATUS PRODUCTION (START/RESUME) PRODUCTION (START/RESUME)	WATER SHUT-OFF							
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION	OTHER: Excluded wells from Change of Operator							
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Do not process Change of Operator from Devon Energy Production Company, LP to LINN Operating, Inc. for the following wells.								
43-013-31192 BOREN 3-11A2 Oil Well Producing BLUEBELL DUCHESNE 1S-2W Sec 11 43-013-51846 MIKE AND SHELLEY #4-14A2 Oil Well Approved permit (APD) BLUEBELL DUCHESNE 1S-2W Sec 14 43-013-31299 CORNABY 2-14A2 Oil Well Producing BLUEBELL DUCHESNE 1S-2W Sec 14 43-013-30035 FLY/DIA L BOREN 1-14A2 Oil Well Shut-In BLUEBELL DUCHESNE 1S-2W Sec 14								
The Devon transaction to Linn Energy allowed EP Energy to exercise their preferential right to purchase the leases and wells in Sections 11 amd 14 of T1S, 2W so EP Energy now owns these wells.								
NAME (PLEASE PRINT) Debbie Chan Reg. Compliance	Supervisor							
SIGNATURE								
This space for State use only)								

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State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 25, 2016

CERTIFIED MAIL NO.: 7015 0640 0003 5276 0327

43 013 31232 Mark 2-25A2

Ms. Nancy Fitzwater Linn Operating, Inc. 600 Travis, Suite 5100 Houston, TX 77002

Subject: Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Dear Ms. Fitzwater:

As of August 2016, Linn Operating, Inc. has twelve (12) Fee Lease Wells (see attachment A) that are currently in non-compliance with the requirements for extended shut-in or temporarily abandoned (SI/TA) status.

Wells SI/TA beyond twelve (12) consecutive months requires filing a Sundry Notice (R649-3-36-1). Wells with five (5) years non-activity or non-productivity shall be plugged, unless the Division grants approval for extended shut-in time upon a showing of good cause by the operator (649-3-36-1.3.3). For extended SI/TA consideration the operator shall provide the Utah Division of Oil, Gas & Mining with the following:

- 1. Reasons for SI/TA of the well (R649-3-36-1.1).
- 2. The length of time the well is expected to be SI/TA (R649-3-36-1.2), and
- 3. An explanation and supporting data if necessary, for showing the well has integrity, meaning that the casing, cement, equipment condition, static fluid level, pressure, existence or absence of Underground Sources of Drinking Water and other factors do not make the well a risk to public health and safety or the environment (R649-3-36-1.3).

Please note that the Divisions preferred method for showing well integrity is by MIT.



Page 2 Linn Operating, Inc. August 25, 2016

Submitting the information suggested below may help show well integrity and may help qualify your well for extended SI/TA. Note: As of July 1, 2003, wells in violation of the SI/TA rule R649-3-36 may be subject to full cost bonding (R649-3-1-4.2, 4.3).

- 1. Wellbore diagram, and
- 2. Copy of recent casing pressure test, and
- 3. Current pressures on the wellbore (tubing pressure, casing pressure, and casing/casing annuli pressure) showing wellbore has integrity, and
- 4. Fluid level in the wellbore, and
- 5. An explanation of how the submitted information proves integrity.

All Submittals should be sent via ePermit

If the required information is not received within 30 days of the date of this notice, further actions may be initiated. If you have any questions concerning this matter, please contact me at (801) 538-5281.

Sincerely,

Dustin K. Doucet Petroleum Engineer

DKD/DD/js

cc: Compliance File Well File

N:\O&G Reviewed Docs\ChronFile\PetroleumEngineer\SITA

ATTACHMENT A

	Well Name	API	LEASE	Years Inactive
	Scofield Thorpe 22-41X Rig Skid	43-007-30890	Fee	2 year(s) 10 month(s)
2	Scofield Thorpe 35-13	43-007-30991	Fee	2 year(s) 9 month(s)
3	Scofield Thorpe 23-31	43-007-31001	Fee	2 year(s) 9 month(s)
4	Mark 2-25A2	43-013-31232	Fee	2 year(s) 7 month(s)
5	Mitchell 2-4B1	43-013-31317	Fee	2 year(s) 4 month(s)
6	SFW Fee 13-10D-54	43-013-50892	Fee	2 year(s) 11 month(s)
7	Galloway #2-14B2	43-013-51739	Fee	3 year(s) 3 month(s)
8	Wilcox Fee 15-16-56	43-013-33151	Fee	1 year(s) 9 month(s)
9	Hamblin 2-26-A2	43-013-30903	Fee	1 year(s) 8 month(s)
10	LC Fee 8-15D-56	43-013-50597	Fee	1 year(s) 7 month(s)
11	CC Fee 7R-28-38	43-013-51852	Fee	1 year(s) 3 month(s)
12	Taylor Fee 7-14-56	43-013-33140	Fee	1 year(s) 7 month(s)





September 22, 2016

Accepted by the
Utah Division of
Oil, Gas and Mining
For Record Only

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SEP 26 2016

Mr. Dustin Doucet
State of Utah – DNR
Division of Oil, Gas and Mining
1594 West North Temple
Salt Lake City, Utah 84116

DIV. OF OIL, GAS & MINING

Re:

Extended Shut-in and Temporary Abandoned Well Requirements for Fee or State Leases

Twelve (12) Fee Lease Wells (see attachment A)

Dear Mr. Doucet:

In response to your letter dated August 25, 2016, Certified Mail # 7015 0640 0003 5276 0327, Linn respectfully submits the following plans to bring these wells into compliance as follows.

Scofield Thorpe 22-41X Rig Skid:

Plug and Abandon in Q2 2017 after winter conditions have passed and road is accessible. We will be submitting sundry/procedures for approval.

Scofield Thorpe 35-13

Plug and Abandon in Q2 2017 after winter conditions have passed and road is accessible. We will be submitting sundry/procedures for approval.

Scofield Thorpe 23-31

Plug and Abandon in Q2 2017 after winter conditions have passed and road is accessible. We will be submitting sundry/procedures for approval.

Mark 2-25A2

Plan to return well to production. This repair work will be completed in Q4 of 2016.

Mitchell 2-4B1

Plan to return well to production. This repair work will be completed in Q1 of 2017.

SFW Fee 13-10D-54

Plug and Abandon in Q1 2017. Well was spud on 9/25/2013. 40' Conductor is Set.

Galloway #2-14B2

Reclaim existing pit in Q4 2016. Request a 1 year extension to maintain surface location/surface pipe for future drilling location.



Wilcox Fee 15-16-56

Plan to return well to production. This repair work will be completed in Q4 of 2016.

Hamblin 2-26-A2

Plan to return well to production. This repair work will be completed in Q1 of 2017.

LC Fee 8-15D-56

Well is under review for economics of Green River frac procedure at current service prices. Requesting to submit final plan for this well in Q1 2017.

CC Fee 7R-28-38

Plan to return to production. We have submitted for a preconstruction permit with UDAQ to operate well below flaring limits. Well is anticipated to be returned to production in Q4 of 2016.

Taylor Fee 7-14-56

Plug and Abandon in Q1 2017. We will be submitting sundry/procedures for approval.

Linn appreciates your time and consideration. If you require any additional information please do not hesitate to contact me at agurr@linnenergy.com or 435-722-0065.

LINN OPERATING, INC.

Andrea Gurr

Regulatory Analyst

Attachment

ATTACHMENT A

	Well Name	API	LEASE	Years Inactive
1	Scofield Thorpe 22-41X Rig Skid	43-007-30890	Fee	2 year(s) 10 month(s)
2	Scofield Thorpe 35-13	43-007-30991	Fee	2 year(s) 9 month(s)
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10	LC Fee 8-15D-56	43-013-50597	Fee	1 year(s) 7 month(s)
11	CC Fee 7R-28-38	43-013-51852	Fee	1 year(s) 3 month(s)
12	Taylor Fee 7-14-56	43-013-33140	Fee	1 year(s) 7 month(s)